Lead-free Solders in Microelectronics

Materials Science and Engineering Reports 27, 95-141 DOI: 10.1016/s0927-796×(00)00010-3

Citation Report

#	Article	IF	CITATIONS
1	Green packages-requirements, materials, results. , 0, , .		7
2	Effect of Cu-containing solders on the critical IMC thickness for the shear strength of BGA solder joints. , 0, , .		6
3	Electromigration of eutectic SnPb and SnAg3.8Cu0.7 flip chip solder bumps and under-bump metallization. Journal of Applied Physics, 2001, 90, 4502-4508.	2.5	218
4	Investigation of UBM systems for electroplated Sn/37Pb and Sn/3.5Ag solder. , 2001, , .		2
5	Influence of Interfacial Reaction on Reliability of QFP Joints with Sn-Ag Based Pb Free Solders. Materials Transactions, 2001, 42, 794-802.	1.2	32
6	Effect of Ag Content on Properties of Sn-Ag Binary Alloy Solder. Materials Transactions, 2001, 42, 286-291.	1.2	37
7	Pb-free solders for flip-chip interconnects. Jom, 2001, 53, 28-33.	1.9	279
8	Effects of microstructural evolution and intermetallic layer growth on shear strength of ball-grid-array Sn-Cu solder joints. Journal of Electronic Materials, 2001, 30, 1323-1331.	2.2	39
9	Experimental determination and thermodynamic calculation of the phase equilibria in the Cu-In-Sn system. Journal of Electronic Materials, 2001, 30, 1093-1103.	2.2	81
10	Surface tension measurements of the Bi-Sn and Sn-Bi-Ag liquid alloys. Journal of Electronic Materials, 2001, 30, 1104-1111.	2.2	69
11	Constitutive and damage model for a lead-free solder. Journal of Electronic Materials, 2001, 30, 1190-1196.	2.2	32
12	Stress relaxation behavior of composite and eutectic Sn-Ag solder joints. Journal of Electronic Materials, 2001, 30, 1197-1205.	2.2	51
13	Interface reaction between copper and molten tin–lead solders. Acta Materialia, 2001, 49, 2481-2489.	7.9	154
14	Surface tension of liquid Ag-Sn alloys: Experiment versus modeling. Journal of Phase Equilibria and Diffusion, 2001, 22, 254-258.	0.3	83
15	Direct correlation between microstructure and mechanical tensile properties in Pb-free solders and eutectic SnPb solder for flip chip technology. Applied Physics Letters, 2001, 79, 482-484.	3.3	27
16	Reliability of lead free solder joint by using chip size package. , 0, , .		5
17	Reliability issues of Pb-free solder joints in electronic packaging technology. , 0, , .		21
18	Interfacial Microstructure Evolution Between Eutectic SnAgCu Solder and Al/Ni(V)/Cu Thin Films. Journal of Materials Research, 2002, 17, 1612-1621.	2.6	85

TATION REDO

#	Article	IF	CITATIONS
19	Morphology, kinetics, and thermodynamics of solid-state aging of eutectic SnPb and Pb-free solders (Sn–3.5Ag, Sn–3.8Ag–0.7Cu and Sn–0.7Cu) on Cu. Journal of Materials Research, 2002, 17, 291-301.	2.6	246
20	Low cycle fatigue and fatigue crack growth behaviour of Sn–Ag eutectic solder. Soldering and Surface Mount Technology, 2002, 14, 30-36.	1.5	29
21	Effect of Au addition on Microstructural and Mechanical Properties of Sn-Cu Eutectic Solder. Materials Transactions, 2002, 43, 239-245.	1.2	27
22	Mechanical Properties and Shear Strength of Sn-3.5Ag-Bi Solder Alloys. Materials Transactions, 2002, 43, 1864-1867.	1.2	12
23	Thermodynamic Calculation of Phase Diagram in the Bi-In-Sb Ternary System. Materials Transactions, 2002, 43, 1879-1886.	1.2	29
24	Wetting characteristics of Pb-free solder alloys and PWB finishes. IEEE Transactions on Electronics Packaging Manufacturing, 2002, 25, 168-184.	1.4	35
25	Pb-free Sn/3.5Ag electroplating bumping process and under bump metallization (UBM). IEEE Transactions on Electronics Packaging Manufacturing, 2002, 25, 193-202.	1.4	17
26	UbBM (under bump metallization) study for Pb-free electroplating bumping : interface reaction and electromigration. , 2002, , .		9
27	Pull testing of lead-free QFP solder joints. , 0, , .		4
28	First principles calculation of thermal expansion coefficient. Journal of Alloys and Compounds, 2002, 343, 71-76.	5.5	12
29	Mechanical properties of Cu/In-48 Sn/Cu diffusion-soldered joints. International Journal of Materials Research, 2002, 93, 496-501.	0.8	13
30	Dry Processes for Surface Modification of a Biopolymer: Chitosan. Macromolecular Materials and Engineering, 2002, 287, 871-880.	3.6	59
31	Experimental determination and thermodynamic calculation of the phase equilibria and surface tension in the Sn-Ag-In system. Journal of Electronic Materials, 2002, 31, 1139-1151.	2.2	75
32	Textured growth of Cu/Sn intermetallic compounds. Journal of Electronic Materials, 2002, 31, 1250-1255.	2.2	11
33	Low-cycle fatigue behavior and mechanisms of a lead-free solder 96.5Sn/3.5Ag. Journal of Electronic Materials, 2002, 31, 142-151.	2.2	66
34	Phase equilibria and solidification properties of Sn-Cu-Ni alloys. Journal of Electronic Materials, 2002, 31, 907-915.	2.2	156
35	Development of rapid manufacturing process by high-speed machining with automatic fixturing. Journal of Materials Processing Technology, 2002, 130-131, 363-371.	6.3	9
36	Rupture time analyses of the Sn–3.5Ag solder alloys containing Cu or Bi. Acta Materialia, 2002, 50, 4315-4324.	7.9	30

#	Article	IF	CITATIONS
37	Six cases of reliability study of Pb-free solder joints in electronic packaging technology. Materials Science and Engineering Reports, 2002, 38, 55-105.	31.8	1,232
38	Correlation between mechanical tensile properties and microstructure of eutectic Sn-3.5Ag solder. Journal of Materials Science Letters, 2002, 21, 723-726.	0.5	35
39	Microindentation study on the rate sensitivity of non-homogeneous solder alloy. Journal of Materials Science Letters, 2002, 21, 1397-1399.	0.5	5
40	Title is missing!. Journal of Materials Science: Materials in Electronics, 2003, 14, 487-493.	2.2	41
41	Theoretical estimation of coefficient of thermal expansion for solder alloy. Journal of Materials Science, 2003, 38, 1135-1137.	3.7	3
42	A study of Sn-Bi-Ag-(In) lead-free solders. Journal of Materials Science, 2003, 38, 1269-1279.	3.7	36
43	Growth of an intermetallic compound layer with Sn-3.5Ag-5Bi on Cu and Ni-P/Cu during aging treatment. Journal of Electronic Materials, 2003, 32, 1195-1202.	2.2	83
44	Thermodynamic database on microsolders and copper-based alloy systems. Journal of Electronic Materials, 2003, 32, 1265-1272.	2.2	40
45	Influence of initial morphology and thickness of Cu6Sn5 and Cu3Sn intermetallics on growth and evolution during thermal aging of Sn-Ag solder/Cu joints. Journal of Electronic Materials, 2003, 32, 1403-1413.	2.2	143
46	Effects of cooling rate on the microstructure and tensile behavior of a Sn-3.5wt.%Ag solder. Journal of Electronic Materials, 2003, 32, 1414-1420.	2.2	180
47	Adhesion strength of the Sn-9Zn-xAg/Cu interface. Journal of Electronic Materials, 2003, 32, 516-522.	2.2	10
48	Creep rupture of lead-free Sn-3.5Ag-Cu solders. Journal of Electronic Materials, 2003, 32, 541-547.	2.2	32
49	Lead-free Sn-Ag and Sn-Ag-Bi solder powders prepared by mechanical alloying. Journal of Electronic Materials, 2003, 32, 215-220.	2.2	46
50	The effects of cooling rate on microstructure and mechanical behavior of Sn-3.5Ag solder. Jom, 2003, 55, 56-60.	1.9	73
51	A new rapid manufacturing process for multi-face high-speed machining. International Journal of Advanced Manufacturing Technology, 2003, 22, 68-74.	3.0	7
52	Characterization of the reaction process in diffusion-soldered Cu/In–48 at.% Sn/Cu joints. Materials Chemistry and Physics, 2003, 77, 924-929.	4.0	49
53	On the loading curve in microindentation of viscoplastic solder alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 344, 296-299.	5.6	28
54	Influence of interfacial intermetallic compound on fracture behavior of solder joints. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 358, 134-141.	5.6	208

#	Article	IF	CITATIONS
55	Spreading of Sn-Ag solders on FeNi alloys. Acta Materialia, 2003, 51, 3185-3197.	7.9	62
56	The reliability study of selected Sn–Zn based lead-free solders on Au/Ni–P/Cu substrate. Microelectronics Reliability, 2003, 43, 453-463.	1.7	40
57	Contact angle of 63Sn–37Pb and Pb-free solder on Cu plating. Applied Surface Science, 2003, 214, 243-258.	6.1	35
58	Effect of 0.5 wt % Cu in Snâ~'3.5%Ag Solder on the Interfacial Reaction with Au/Ni Metallization. Chemistry of Materials, 2003, 15, 4340-4342.	6.7	66
59	Development of Cu–Sn intermetallic compound at Pb-free solder/Cu joint interface. Materials Letters, 2003, 57, 3361-3365.	2.6	102
60	Thermodynamic analysis of influence of Pb contamination on Pb-free solder joints reliability. Journal of Alloys and Compounds, 2003, 348, 184-188.	5.5	42
61	Intermetallic compounds formation and interfacial adhesion strength of Sn–9Zn–0.5Ag solder alloy hot-dipped on Cu substrate. Journal of Alloys and Compounds, 2003, 352, 168-174.	5.5	41
62	Investigation of interfacial reactions between Sn–5Bi solder and Cu substrate. Journal of Alloys and Compounds, 2003, 359, 202-208.	5.5	79
63	Enhancement of the wettability and solder joint reliability at the Sn–9Zn–0.5Ag lead-free solder alloy–Cu interface by Ag precoating. Journal of Alloys and Compounds, 2003, 360, 217-224.	5.5	32
64	Emerging Materials Challenges in Microelectronics Packaging. MRS Bulletin, 2003, 28, 68-74.	3.5	17
65	Research on failure modes of BGA assemblies with lead-free solder on different PCB materials. , 2003, ,		2
66	Self-sensed inspection of joint temperature for thin-film sensors. , 2003, , .		0
67	Solder joint reliability modeling of 96.5Sn/3.5Ag flip chip bumps under temperature cycling condition. , 0, , .		5
68	Parallel gap bonding mechanism of joint formation for thin-film metallization. , 2003, , .		2
69	Lead-free solders and isotropically conductive adhesives in assembling of silicon solar cells - preliminary results. , 2003, , .		3
70	Determination of reactive wetting properties of Sn, Sn–Cu, Sn–Ag, and Sn–Pb alloys using a wetting balance technique. Journal of Materials Research, 2003, 18, 1420-1428.	2.6	34
71	Rapid Manufacturing of 3D Shaped Products by Multi-Face High-Speed Machining. Key Engineering Materials, 2003, 238-239, 399-404.	0.4	0
72	Effect of Viscosity of Liquid Resin on Resin Self-Alignment Capability. Materials Science Forum, 2003, 439, 12-17.	0.3	1

# 73	ARTICLE Effect of Bi on the microstructure evolution of Sn-3Ag-0.5Cu/Cu solder joint. , 2003, , .	IF	CITATIONS
74	Effect of 0.5 wt % Cu addition in Sn–3.5%Ag solder on the dissolution rate of Cu metallization. Journal of Applied Physics, 2003, 94, 7904.	2.5	76
75	Phase characterisation and kinetic behaviour of diffusion soldered Cu/In/Cu interconnections. Materials Science and Technology, 2003, 19, 528-534.	1.6	27
76	Mechanical tensile fracture behaviors of solid-state-annealed eutectic SnPb and lead-free solder flip chip bumps. , 0, , .		0
77	Effect of supersaturation of Cu on reaction and intermetallic compound formation between Sn–Cu solder and thin film metallization. Journal of Materials Research, 2003, 18, 2109-2114.	2.6	18
78	Microstructures and mechanical properties of Sn–8.55Zn–0.45Al–XAg solders. Journal of Materials Research, 2003, 18, 1528-1534.	2.6	17
79	Solderability of BGA Joints between Cu Core Solder Balls with Sn/Ag Multi Plating and Ni/Au Coated Pads. Journal of Japan Institute of Electronics Packaging, 2003, 6, 509-515.	0.1	6
80	Electrical property of anisotropically conductive adhesive joints modified by self-assembled monolayer (SAM). , 0, , .		4
81	Microstructure and interface reaction between Sn-3.5Ag solder and electroplated Ni layer on Cu substrate during high temperature exposure. , 0, , .		3
82	Fractal analysis of Sn-Ag, Sn-Ag-Cu, Sn-Ag-Bi interfacial morphology in flipchip packaging applications. , 0, , .		0
83	Lead free solder paste containing SnAgBiIn alloy: a preliminary study. , 0, , .		2
84	Microstructural and mechanical characterization of 95.5Sn-4Ag-0.5Cu solder balls by nano-indentation. , 0, , .		2
85	Isothermal and thermal cycling aging on IMC growth rate in Pb-free and Pb-based solder interfaces. , 0, , .		8
86	Alternative lead-free solder joint integrity under room temperature mechanical load. , 0, , .		3
87	Effect of Sb Addition on Microstructure and Shear Strength of Sn-Ag Solder Joints. Key Engineering Materials, 2004, 261-263, 501-506.	0.4	7
88	Effect of the Bi Content on the Mechanical Properties of a Sn-Zn-Al-Bi Solder Alloy. Materials Science Forum, 2004, 455-456, 307-311.	0.3	3
89	Interfacial reactions of Sn–Cu and Sn–Pb–Ag solder with Au/Ni during extended time reflow in ball grid array packages. Journal of Materials Research, 2004, 19, 2897-2904.	2.6	19
90	Wetting and strength in the tin–silver–titanium/sapphire system. International Journal of Materials Research, 2004, 95, 261-265	0.8	10

ARTICLE IF CITATIONS Interfacial reactions of lead-free Snâ€"Zn based solders on Cu and Cu plated electroless Niâ€"P/Au layer 2.6 48 91 under aging at 150 ŰC. Journal of Materials Research, 2004, 19, 3560-3568. Wetting interaction between Pb-free Sn-Zn series solders and Cu, Ag substrates., 0, , . Three-dimensional microstructure characterization of Ag3Sn intermetallics in Sn-rich solder by 93 4.4 60 serial sectioning. Materials Characterization, 2004, 52, 225-230. Effect of isothermal aging on intermetallic compound layer growth at the interface between 94 58 Sn-3.5Ag-0.75Cu solder and Cu substrate. Journal of Materials Science, 2004, 39, 4211-4217. The effect of current crowding on electromigration in lead-free flip chip bump interconnect., 0, , . 95 11 Morphology changes in solder joints––experimental evidence and physical understanding. Microelectronics Reliability, 2004, 44, 1901-1914. 1.7 Sn-Ag-Cu and Sn-Cu solders: Interfacial reactions with platinum. Jom, 2004, 56, 45-49. 97 1.9 17 Creep deformation behavior of Sn-3.5Ag solder at small length scales. Jom, 2004, 56, 50-54. 1.9 98 Selective formation of intermetallic compounds in Sn-20In-0.8Cu ball grid array solder joints with 99 2.2 8 Au/Ni surface finishes. Journal of Electronic Materials, 2004, 33, 940-947. Residual stress and interfacial reaction of the electroplated Ni-Cu alloy under bump metallurgy in the 2.2 flip-chip solder joint. Journal of Electronic Materials, 2004, 33, 948-957. Effect of Cu concentration on morphology of Sn-Ag-Cu solders by mechanical alloying. Journal of 101 2.2 26 Electronic Materials, 2004, 33, 1445-1451. Contact angle measurements of Sn-Ag and Sn-Cu lead-free solders on copper substrates. Journal of Electronic Materials, 2004, 33, 1452-1458. 2.2 Interfacial reaction study on a solder joint with Sn-4Ag-0.5Cu solder ball and Sn-7Zn-Al (30 ppm) solder paste in a lead-free wafer level chip scale package. Journal of Electronic Materials, 2004, 33, 103 2.2 4 1550-1556. Intermetallic compounds and adhesion strength between the Sn-9Zn-1.5Ag-0.5Bi lead-free solder and 104 2.2 unfluxed Cu substrate. Journal of Electronic Materials, 2004, 33, 1557-1560. A dynamic model for the assessment of the replacement of lead in solders. Journal of Electronic 105 2.2 29 Materials, 2004, 33, 1567-1580. Phase equilibria of the Sn-Ag-Cu-Ni quaternary system at the sn-rich corner. Journal of Electronic 2.2 Materials, 2004, 33, 1071-1079. Phase field simulations of intermetallic compound growth during soldering reactions. Journal of 107 2.256 Electronic Materials, 2004, 33, 1161-1170. Effect of cooling rate on microstructure and shear strength of pure Sn, Sn-0.7Cu, Sn-3.5Ag, and 2.2 Sn-37Pb solders. Journal of Electronic Materials, 2004, 33, 1355-1362.

#	Article	IF	CITATIONS
109	The interfacial reaction between Sn-Zn-Ag-Ga-Al solders and metallized Cu substrates. Journal of Electronic Materials, 2004, 33, 7-13.	2.2	14
110	Young's modulus of (Cu, Ag)–Sn intermetallics measured by nanoindentation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 364, 240-243.	5.6	153
111	Properties of lead-free solder alloys with rare earth element additions. Materials Science and Engineering Reports, 2004, 44, 1-44.	31.8	522
112	Low cycle fatigue study of lead free 99.3Sn–0.7Cu solder alloy. International Journal of Fatigue, 2004, 26, 865-872.	5.7	80
113	Joint strength and interfacial microstructure between Sn–Ag–Cu and Sn–Zn–Bi solders and Cu substrate. Science and Technology of Advanced Materials, 2004, 5, 267-276.	6.1	52
114	Phase equilibria of the Sn–Ag–Ni ternary system and interfacial reactions at the Sn–Ag/Ni joints. Acta Materialia, 2004, 52, 2541-2547.	7.9	59
115	Deformation behavior of (Cu, Ag)–Sn intermetallics by nanoindentation. Acta Materialia, 2004, 52, 4291-4303.	7.9	284
116	Creep deformation behavior of Sn–3.5Ag solder/Cu couple at small length scales. Acta Materialia, 2004, 52, 4527-4535.	7.9	196
117	A mold and transfer technique for lead-free fluxless soldering and application to wafer-level low-temperature thin-film packages. , 0, , .		1
118	TBCA substrate for lead-free and halogen-free applications. , 0, , .		3
119	Development of isotropic conductive adhesives with improved conductivity. , 0, , .		6
120	Green chemistry in the microelectronics industry. Green Chemistry, 2004, 6, 363.	9.0	24
121	Effects of electromigration on IMC evolution in Pb-free solder joints. , 0, , .		3
122	Effect of intermetallic phases on performance in a mechanical drop environment: 96.5Sn3.5Ag solder on Cu and Ni/Au pad finishes. , 0, , .		17
123	The effect of Bi on the IMC growth in Sn-3Ag-0.5Cu solder interface during aging process. , 0, , .		1
124	Phase equilibria of the Ag–Sn–Cu ternary system. Journal of Materials Research, 2004, 19, 2298-2305.	2.6	32
125	Molecular dynamics study of thermal properties of noble metals. Computational Materials Science, 2004, 31, 309-316.	3.0	30
126	Growth kinetics of Ni3Sn4 and Ni3P layer between Sn–3.5Ag solder and electroless Ni–P substrate. Journal of Alloys and Compounds, 2004, 376, 105-110.	5.5	61

#	Article	IF	CITATIONS
127	Improvement on the microstructure stability, mechanical and wetting properties of Sn–Ag–Cu lead-free solder with the addition of rare earth elements. Journal of Alloys and Compounds, 2004, 376, 170-175.	5.5	205
128	Microstructural evolution of Sn–9Zn–3Bi solder/Cu joint during long-term aging at 170°C. Journal of Alloys and Compounds, 2004, 381, 202-207.	5.5	71
129	Analysis on interfacial reactions between Sn–Zn solders and the Au/Ni electrolytic-plated Cu pad. Journal of Alloys and Compounds, 2004, 379, 314-318.	5.5	76
130	Investigation of interfacial microstructure and wetting property of newly developed Sn–Zn–Cu solders with Cu substrate. Journal of Alloys and Compounds, 2004, 385, 119-125.	5.5	127
131	Phase diagram calculation on Sn–Zn–Ga solders. Journal of Non-Crystalline Solids, 2004, 336, 153-156.	3.1	18
132	Enhancing the Performance of Sn-Ag-Cu Solder With the Addition of Titanium Diboride Particulates. , 2004, , 315.		2
133	The Effect of Reduction Capability of Resin Material on the Solder Wettability for Electrically Conductive Adhesives (ECAs) Assembly. Materials Transactions, 2004, 45, 793-798.	1.2	8
134	Wetting Properties of and Interfacial Reactions in Lead-free Sn-Zn Based Solders on Cu and Cu Plated with an Electroless Ni-P/Au Layer. Materials Transactions, 2004, 45, 588-594.	1.2	39
135	Microstructures and Shear Strength of Interfaces between Sn-Zn Lead-free Solders and Au/Ni/Cu UBM. Materials Transactions, 2004, 45, 721-726.	1.2	7
136	Influence of the Interfacial Reaction Layer on Reliability of CSP Joints Using Sn-8Zn-3Bi Solder and Ni/Au Plating. Materials Transactions, 2004, 45, 734-740.	1.2	18
137	Thermodynamic Calculations of Phase Equilibria, Surface Tension and Viscosity in the In-Ag-X (X=Bi, Sb) System. Materials Transactions, 2004, 45, 637-645.	1.2	33
138	Interfacial Reaction and Morphology Between Molten Sn Base Solders and Cu Substrate. Materials Transactions, 2004, 45, 646-651.	1.2	48
139	Pasty Ranges and Latent Heat Release Modes for Sn-9Zn- <i>x</i> Ag Lead-free Solder Alloys. Materials Transactions, 2004, 45, 1949-1957.	1.2	3
140	Formation of a Self-Interconnected Joint using a Low-Melting-Point Alloy Adhesive. Materials Transactions, 2004, 45, 799-805.	1.2	12
141	Low cycle fatigue testing and simulation of Snâ€8Znâ€3Bi and Snâ€37Pb solder joints. Soldering and Surface Mount Technology, 2005, 17, 38-45.	1.5	3
142	Interfacial Reaction and Mechanical Characterization of Eutectic Sn–Zn/ENIG Solder Joints during Reflow and Aging. Materials Transactions, 2005, 46, 2386-2393.	1.2	9
143	Study on Sn–Ag Oxidation and Feasibility of Room Temperature Bonding of Sn–Ag–Cu Solder. Materials Transactions, 2005, 46, 2431-2436.	1.2	27
144	Isoplethal Sections of the Liquidus Projection and the 250°C Phase Equilibria of the Sn–Ag–Cu–Ni Quaternary System at the Sn-Rich Corner. Materials Transactions, 2005, 46, 2426-2430.	1.2	9

ARTICLE IF CITATIONS # Interfacial Reaction Layer and Reliability of CSP Solder Joints using Sn-8Zn-3Bi Solder and Ni/Au Plating 0.4 0 145 Pad. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2005, 69, 132-138. Degradation of Snâ€Agâ€Cu heatâ€sink attachment during thermal shock cycling. Soldering and Surface 146 1.5 Mount Technology, 2005, 17, 10-16. Development of a flux-less soldering method by ultrasonic modulated laser. Journal of Materials 147 6.3 25 Processing Technology, 2005, 168, 303-307. Study of anisotropic conductive adhesive joint behavior under 3-point bending. Microelectronics 148 Reliability, 2005, 45, 589-596. Solid-state reactions between Ni and Snâ€"Agâ€"Cu solders with different Cu concentrations. Materials 149 Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 110 5.6 396, 385-391. Reliability of Sn–Ag–Sb lead-free solder joints. Materials Science & amp; Engineering A: Structural 5.6 Materials: Properties, Microstructure and Processing, 2005, 407, 36-44. Interfacial reactions of Sn–Cu solder with Ni/Au surface finish on Cu pad during reflow and aging in ball grid array packages. Materials Science and Engineering B: Solid-State Materials for Advanced 151 3.5 31 Technology, 2005, 117, 246-253. Viscosity transition of ZnO-containing rosin. Materials Letters, 2005, 59, 1889-1892. 2.6 Microstructure and mechanical properties of low Ga content Snâ€"8.55Znâ€"0.5Agâ€"0.1Alâ€"xGa solders. 153 5.2 11 Scripta Materialia, 2005, 52, 369-374. Correlation between thermal fatigue and thermal anisotropy in a Pb-free solder alloy. Scripta 154 5.2 84 Materialia, 2005, 53, 927-932. High Melting Pb-Free Solder Alloys for Die-Attach Applications. Advanced Engineering Materials, 2005, 155 3.5 59 7,965-969. The formation and growth of intermetallic compounds and shear strength at Sn–Zn 156 38 solder/Au–Ni–Ču interfaces. Microelectronics Reliability, 2005, 45, 647-655. Temperature and Oxygen Partial Pressure Dependences of the Surface Tension of Liquid Sn–Ag and 157 1.8 5 Sn–Cu Lead-free Solder Alloys. Monatshefte Für Chemie, 2005, 136, 1829-1834. Thermal properties and interfacial reaction between the Sn-9Zn-xAg lead-free solders and Cu substrate. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2005, 36, 3019-3029. 2.2 16 Influence of reflow and thermal aging on the shear strength and fracture behavior of Sn-3.5Ag 159 solder/Cu joints. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials 2.2 162 Science, 2005, 36, 55-64. Novel interconnection method using electrically conductive paste with fusible filler. Journal of 2.2 Electronic Materials, 2005, 34, 600-604. Lead-free interconnect technique by using variable frequency microwave. Journal of Electronic 161 2.216 Materials, 2005, 34, 1081-1088. Reliability of In-48Sn solder/Au/Ni/Cu BGA packages during reflow process. Journal of Electronic 2.2 Materials, 2005, 34, 1565-1572.

#	Article	IF	CITATIONS
163	Monolayer-protected silver nano-particle-based anisotropic conductive adhesives: Enhancement of electrical and thermal properties. Journal of Electronic Materials, 2005, 34, 1573-1578.	2.2	58
164	Whisker growth on surface treatment in the pure tin plating. Journal of Electronic Materials, 2005, 34, 1579-1585.	2.2	6
165	Formation of bulk Ag3Sn intermetallic compounds in Sn-Ag lead-free solders in solidification. Journal of Electronic Materials, 2005, 34, 1591-1597.	2.2	58
166	Density measurement of Sn-40Pb, Sn-57Bi, and Sn-9Zn by indirect Archimedean method. Journal of Electronic Materials, 2005, 34, 1414-1419.	2.2	18
167	Influence of interfacial reaction layer on reliability of chip-scale package joint from using Sn-37Pb and Sn-8Zn-3Bi solder. Journal of Electronic Materials, 2005, 34, 161-167.	2.2	10
168	Rate-dependent indentation behavior of solder alloys. Journal of Materials Science, 2005, 40, 1923-1928.	3.7	6
169	Concentration fluctuations and surface tension in liquid Au-Sn-Zn. Journal of Materials Science, 2005, 40, 3759-3763.	3.7	4
170	Creep rupture of lead-free Sn-3.5Ag and Sn-3.5Ag-0.5Cu solders. Journal of Materials Science: Materials in Electronics, 2005, 16, 355-365.	2.2	34
171	Microstructural damage analysis of SnAgCu solder joints and an assessment on indentation procedures. Journal of Materials Science: Materials in Electronics, 2005, 16, 693-700.	2.2	21
172	Study of structural changes and properties for Sn–Zn ₉ lead-free solder alloy with addition of different alloying elements. Radiation Effects and Defects in Solids, 2005, 160, 45-52.	1.2	11
173	Effect of microstructural evolution on electrical property of the Sn–Ag–Cu solder balls joined with Sn–Zn–Bi paste. Journal of Materials Research, 2005, 20, 2854-2865.	2.6	3
174	Phase Equilibria in the Sn-Rich Corner of the Sn–Cu–Ni Ternary Alloy System at 240 °C. Journal of Materials Research, 2005, 20, 3118-3124.	2.6	31
175	Interfacial Reaction and Shear Strength of Pb-Free Sn-3.5Ag/Ni BGA Solder Joints during Reflow. Materials Science Forum, 2005, 486-487, 289-292.	0.3	2
176	Fabrication and Properties of Lead-Free Sn-Ag-Cu-Ga Solder Alloy. Materials Science Forum, 2005, 475-479, 1747-1750.	0.3	6
177	Synthesis and Characterization of Lead-Free Solders with Sn-3.5Ag-xCu (x=0.2, 0.5, 1.0) Alloy Nanoparticles by the Chemical Reduction Method. Journal of the Electrochemical Society, 2005, 152, J105.	2.9	62
178	Effects of Cu Contents in Sn–Cu Solder on the Composition and Morphology of Intermetallic Compounds at a Solder/Ni Interface. Journal of Materials Research, 2005, 20, 2205-2212.	2.6	44
179	Molecular dynamics study of a nano-particle joint for potential lead-free anisotropic conductive adhesives applications. Journal of Adhesion Science and Technology, 2005, 19, 87-94.	2.6	7
180	Intermetallic Compound Formation and Diffusion Path Evolution in the Flip Chip Sn-37Pb Solder Bump after Aging. , 2005, , .		0

ARTICLE IF CITATIONS Lead-free solders based on the Sn-8Zn-3Bi ternary alloy with additions of In, Nd or La., 0,,. 181 0 IMC Evolution and Reliability of Lead-free Solder Bump Formed by Induction Self Heat Reflow., 0, , . 183 Pore formation in lead-free solders on Cu- and Ag-metallization., 0,,. 0 MEAM molecular dynamics study of lead free solder for electronic packaging applications. Modelling 184 and Simulation in Materials Science and Engineering, 2005, 13, 1279-1290. DEVELOPMENT OF NOVEL LEAD-FREE SOLDER COMPOSITES USING CARBON NANOTUBE REINFORCEMENTS. 185 0.7 11 International Journal of Nanoscience, 2005, 04, 423-429. Molecular dynamics simulation of lead free solder for low temperature reflow applications., 0, , . Early dissolution behavior of copper in a molten Sn–Zn–Ag solder. Journal of Materials Research, 187 2.6 14 2005, 20, 666-671. Lead-free solder materials for sustainable development of green electronics in China., 0, , . 189 Thermal Gradient in Solder Joints Under Electrical Current Stressing., 2005, , 1277. 0 Mechanical and Electrical Properties of Sn-3.5Ag Solder/Cu BGA Packages during Multiple Reflows. Key 0.4 Engineering Materials, 2005, 297-300, 801-806 Effects of intermetaltic compounds on properties of Sn-Cu lead-free soldered joints., 0,,. 191 1 Differences between solder bonds made with SnPbAg and SnAgCu solders., 0, , . Microstructural evolution of Sn-Zn based lead free solders after temperature and humid atmosphere 193 0 exposure., 2005,,. Impact of Fatigue Modeling on 2>sup<nd>/sup<Level Joint Reliability of BGA Packages with SnAgCu 194 Solder Balls., Ŏ,, . 195 Fluxless sn-rich sn-au flip-chip bonding using electroplating processes., 0,,. 0 Effect of Mg on the Microstructure and Properties of Sn-Ag-Cu Lead-free Solder., 0, , . The growth behavior of intermetallic compound layer of Sn-Ag-Cu/Cu interface during soldering., 0,, 197 1 198 The formation and evolution of IMC and its effect on the solder joint properties. , 0, , .

#		IE	CITATIONS
π	Akticle	11	CHATIONS
199	Study offreactive wetting of Sh0.7 Cu-x2ff lead-free solders off Cu substrate., 0, , .		0
200	Surface activation process of lead-free solder bumps for low temperature bonding. , 0, , .		4
201	Interfacial Reaction between Lead-free Solder Ball and Au/Ni/Cu Pad during Laser Reflow Soldering. , 0, , .		3
202	Research on Interfacial Intermetallics Growth Behavior of SnAgCu/Cu Solder Joints under Thermal-shearing Cycling. , 0, , .		0
203	Coffin-Manson Equation determination for Sn-Zn Based Lead-Free Solder Joints. , 2005, , .		3
204	High Performance Anistropic Conductive Adhesives for Lead-free Interconnects. , 2005, , .		2
205	Effect of Rare Earths on Microstructure and Properties of Sn2.0Ag0.7CuRE Solder Alloy. , 0, , .		3
206	Reliability of SnAgCu solder balls in packaging. , 0, , .		0
207	Correlation between thermal fatigue and thermal anisotropy in a sn-rich solder alloy. , 0, , .		1
208	Isothermal and thermal cycling aging on IMC growth rate in lead-free and lead-based solder interface. IEEE Transactions on Components and Packaging Technologies, 2005, 28, 408-414.	1.3	77
209	Effects of alloying elements on the characteristics of Sn-Zn lead-free solder. , 0, , .		6
210	Nano-Ag Filled Anisotropic Conductive Adhesives (ACA) with Self-Assembled Monolayer and Sintering Behavior for High. , 0, , .		5
211	MATERIALS SCIENCE: Electronics Without Lead. Science, 2005, 308, 1419-1420.	12.6	451
212	Dissolution of electroless Ni metallization by lead-free solder alloys. Journal of Alloys and Compounds, 2005, 388, 75-82.	5.5	48
213	The formation of nano-Ag3Sn particles on the intermetallic compounds during wetting reaction. Journal of Alloys and Compounds, 2005, 389, 153-158.	5.5	71
214	Effect of indium addition in Sn-rich solder on the dissolution of Cu metallization. Journal of Alloys and Compounds, 2005, 390, 67-73.	5.5	76
215	Intermetallic compounds growth between Sn–3.5Ag lead-free solder and Cu substrate by dipping method. Journal of Alloys and Compounds, 2005, 392, 192-199.	5.5	107
216	IMC morphology, interfacial reaction and joint reliability of Pb-free Sn–Ag–Cu solder on electrolytic Ni BGA substrate. Journal of Alloys and C <u>ompounds, 2005, 392, 247-252.</u>	5.5	112

#	Article	IF	CITATIONS
217	Interfacial reactions on electrolytic Ni and electroless Ni(P) metallization with Sn–In–Ag–Cu solder. Journal of Alloys and Compounds, 2005, 393, 135-140.	5.5	23
218	Interfacial reactions between Sn–0.4Cu solder and Cu substrate with or without ENIG plating layer during reflow reaction. Journal of Alloys and Compounds, 2005, 396, 122-127.	5.5	79
219	Properties of low melting point Sn–Zn–Bi solders. Journal of Alloys and Compounds, 2005, 397, 260-264.	5.5	128
220	Configuration of nanostructures reinforced Mg–MgO–Mg2Cu composite. Composites Part A: Applied Science and Manufacturing, 2005, 36, 1222-1228.	7.6	1
221	Effects of Bi - Ni additives on the microstructures and wetting properties of Sn-Zn-Cu lead-free alloy. , 0, , .		2
222	Thermal Characters Analysis of Induction-Self-Heating-Reflow for Solders Bumping. , 2006, , .		0
223	Development of Lead-Free Solder Composites Containing Nanosized Hybrid (ZrO ₂ + 8 mol.% Y ₂ O ₃) Particulates. Solid State Phenomena, 2006, 111, 59-62.	0.3	10
224	Effect of 3 wt.% Bi in Sn-Zn solder on the interfacial reactions with the Au/Ni metallization. Electronics Manufacturing Technology Symposium (IEMT), IEEE/CPMT International, 2006, , .	0.0	0
225	Effects of Ni particle addition on microstructure and properties of SnAg based composite solders. , 2006, , .		3
226	Study of New Types Lead-Free Solder Alloys of Sn-Ag-Cu-Al-Ni and Sn-Zn-Bi-In-P. , 2006, , .		0
227	Microstructure and Deformability of Sn-Zn-Bi Alloys. , 2006, , .		2
228	Indentation creep of lead-free Sn-Bi solder alloys as replacements of Sn-Pb used in microelectronic packaging. Electronics Manufacturing Technology Symposium (IEMT), IEEE/CPMT International, 2006, , .	0.0	0
229	Effects of cooling rates on microstructure and microhardness of lead-free Sn-3.5% Ag solders. Transactions of Nonferrous Metals Society of China, 2006, 16, 59-64.	4.2	52
230	Effect of diode-laser parameters on shear force of micro-joints soldered with Sn-Ag-Cu lead-free solder on Au/Ni/Cu pad. Transactions of Nonferrous Metals Society of China, 2006, 16, 1374-1378.	4.2	19
231	Fluxless Flip-Chip Solder Joint Fabrication Using Electroplated Sn-Rich Sn-Au Structures. IEEE Transactions on Advanced Packaging, 2006, 29, 473-482.	1.6	29
232	A Mold and Transfer Technique for Lead-Free Fluxless Soldering and Application to MEMS Packaging. Journal of Microelectromechanical Systems, 2006, 15, 849-858.	2.5	8
233	Mechanical Properties of Arrayed Pb-Free Tin Bump and Its Interfacial Reaction with Ni-P UBM during Reflow Process. , 2006, , .		0
234	Effects of reflow and cooling conditions on interfacial reaction and IMC morphology of Sn–Cu/Ni solder joint. Journal of Alloys and Compounds, 2006, 415, 56-61.	5.5	29

#	Article	IF	CITATIONS
235	Reliability studies of Sn–9Zn/Cu solder joints with aging treatment. Journal of Alloys and Compounds, 2006, 407, 141-149.	5.5	36
236	Effect of multiple reflow processes on the reliability of ball grid array (BGA) solder joints. Journal of Alloys and Compounds, 2006, 414, 123-130.	5.5	48
237	Effects of small additions of Ag, Al, and Ga on the structure and properties of the Sn–9Zn eutectic alloy. Journal of Alloys and Compounds, 2006, 416, 98-105.	5.5	70
238	Coupling effects at Cu(Ni)–SnAgCu–Cu(Ni) sandwich solder joint during isothermal aging. Journal of Alloys and Compounds, 2006, 417, 143-149.	5.5	25
239	High temperature aging study of intermetallic compound formation of Sn–3.5Ag and Sn–4.0Ag–0.5Cu solders on electroless Ni(P) metallization. Journal of Alloys and Compounds, 2006, 425, 191-199.	5.5	42
240	Roles of imposed cyclic strain amplitude and cyclic strain rate on the stress relaxation behaviour of preâ€strained eutectic Snâ€3.5Ag solder joints. Soldering and Surface Mount Technology, 2006, 18, 19-28.	1.5	10
241	Interfacial reactions and shear strength on Cu and electrolytic Au/Ni metallization with Sn-Zn solder. Journal of Materials Research, 2006, 21, 1590-1599.	2.6	58
242	Intermetallic compound formation and diffusion path evolution in eutectic tinâ€lead flip chip solder bumps after aging. Soldering and Surface Mount Technology, 2006, 18, 18-26.	1.5	2
243	Interfacial reactions and joint strength of Sn–37Pb and Sn–3.5Ag solders with immersion Ag-plated Cu substrate during aging at 150 °C. Journal of Materials Research, 2006, 21, 3196-3204.	2.6	30
244	Microstructure of Interface between Sn-Cu Solder with Ni and Cu Plate. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2006, 70, 427-433.	0.4	5
245	Interfacial reactions between In–48Sn solder and electroless nickel/immersion gold substrate during reflow process. Surface and Interface Analysis, 2006, 38, 426-428.	1.8	9
246	The atomic-scale studies of the behavior of the crystal dissolution in a molten metal. Chemical Physics Letters, 2006, 418, 433-436.	2.6	21
247	Interfacial reaction of ENIG/Sn-Ag-Cu/ENIG sandwich solder joint during isothermal aging. Microelectronic Engineering, 2006, 83, 2329-2334.	2.4	34
248	Numerical and experimental analysis of the Sn3.5Ag0.75Cu solder joint reliability under thermal cycling. Microelectronics Reliability, 2006, 46, 1348-1356.	1.7	11
249	Fatigue damage mechanisms of copper single crystal/Sn–Ag–Cu interfaces. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 435-436, 588-594.	5.6	30
250	Intermetallic compound formation in Sn–Co–Cu, Sn–Ag–Cu and eutectic Sn–Cu solder joints on electroless Ni(P) immersion Au surface finish after reflow soldering. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2006, 135, 134-140.	3.5	36
251	Recent advances of conductive adhesives as a lead-free alternative in electronic packaging: Materials, processing, reliability and applications. Materials Science and Engineering Reports, 2006, 51, 1-35.	31.8	593
252	Microstructural development in a rapidly cooled eutectic Sn–3.5% Ag solder reinforced with copper powder. Powder Technology, 2006, 166, 38-46.	4.2	21

#	Article	IF	CITATIONS
253	Improving the performance of lead-free solder reinforced with multi-walled carbon nanotubes. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 423, 166-169.	5.6	139
254	Effects of Co and Ni addition on reactive diffusion between Sn–3.5Ag solder and Cu during soldering and annealing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 420, 39-46.	5.6	177
255	Nanoindentation study of Zn-based Pb free solders used in fine pitch interconnect applications. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 423, 57-63.	5.6	42
256	Modelling of Ag3Sn coarsening and its effect on creep of Sn–Ag eutectics. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 427, 60-68.	5.6	48
257	Influence of ceramic reinforcements on the wettability and mechanical properties of novel lead-free solder composites. Thin Solid Films, 2006, 504, 401-404.	1.8	127
258	Behavior of tin whisker formation and growth on lead-free solder finish. Thin Solid Films, 2006, 504, 350-354.	1.8	45
259	Role of titanium on the reactive spreading of lead-free solders on alumina. Journal of Materials Research, 2006, 21, 3222-3233.	2.6	54
260	Intermetallic compounds evolution between lead-free solder and cu-based lead frame alloys during isothermal aging. Journal of Materials Science, 2006, 41, 2359-2364.	3.7	16
261	Creep properties of Sn-3.5Ag-0.5Cu lead-free solder under step-loading. Journal of Materials Science: Materials in Electronics, 2006, 17, 577-586.	2.2	10
262	Electrochemical migration of Sn-Pb and lead free solder alloys under distilled water. Journal of Materials Science: Materials in Electronics, 2006, 17, 219-227.	2.2	67
263	Electrochemical migration of lead free solder joints. Journal of Materials Science: Materials in Electronics, 2006, 17, 229-241.	2.2	37
264	Phase Diagrams of Pb-Free Solders and their Related Materials Systems. Journal of Materials Science: Materials in Electronics, 2006, 18, 19-37.	2.2	83
265	Composite lead-free electronic solders. Journal of Materials Science: Materials in Electronics, 2006, 18, 129-145.	2.2	85
266	Rare-earth additions to lead-free electronic solders. Journal of Materials Science: Materials in Electronics, 2006, 18, 77-91.	2.2	45
267	Mechanical fatigue of Sn-rich Pb-free solder alloys. Journal of Materials Science: Materials in Electronics, 2006, 18, 211-227.	2.2	37
268	Interfacial reaction issues for lead-free electronic solders. Journal of Materials Science: Materials in Electronics, 2006, 18, 155-174.	2.2	206
269	Nano-indentation characterization of Ni–Cu–Sn IMC layer subject to isothermal aging. Thin Solid Films, 2006, 504, 362-366.	1.8	104
270	Old friends in a new light: "SnSb―revisited. Journal of Solid State Chemistry, 2006, 179, 404-412.	2.9	25

	Ст	CITATION REPORT	
#	Article	IF	CITATIONS
271	Tin whisker formation of lead-free plated leadframes. Microelectronics Reliability, 2006, 46, 1080-1086	. 1.7	46
272	Abnormal growth of Ag3Sn intermetallic compounds in Sn-Ag lead-free solder. Science Bulletin, 2006, 51, 1766-1770.	1.7	13
273	Lead-free solder reinforced with multiwalled carbon nanotubes. Journal of Electronic Materials, 2006, 35, 1518-1522.	2.2	81
274	Effect of reaction time on mechanical strength of the interface formed between the Sn-Zn(-Bi) solder and the Au/Ni/Cu bond pad. Journal of Electronic Materials, 2006, 35, 1812-1817.	2.2	13
275	Effect of thermal cycling on the growth of intermetallic compounds at the Sn-Zn-Bi-In-P lead-free solder/Cu interface. Journal of Electronic Materials, 2006, 35, 1873-1878.	2.2	7
276	Effects of Bi and Pb on oxidation in humidity for low-temperature lead-free solder systems. Journal of Electronic Materials, 2006, 35, 41-47.	2.2	33
277	Growth of intermetallic compounds in the Sn-9Zn/Cu joint. Journal of Electronic Materials, 2006, 35, 1660-1664.	2.2	38
278	Optimal phosphorous content selection for the soldering reaction of Ni-P under bump metallization with Sn-Ag-Cu solder. Journal of Electronic Materials, 2006, 35, 1665-1671.	2.2	11
279	Strengthening effects of ZrO2 nanoparticles on the microstructure and microhardness of Sn-3.5Ag lead-free solder. Journal of Electronic Materials, 2006, 35, 1672-1679.	2.2	87
280	Effect of small additions of alloying elements on the properties of Sn-Zn eutectic alloy. Journal of Electronic Materials, 2006, 35, 1734-1739.	2.2	56
281	The effect of Ag content on the formation of Ag3Sn plates in Sn-Ag-Cu lead-free solder. Journal of Electronic Materials, 2006, 35, 2074-2080.	2.2	19
282	Morphology of intermetallic compounds formed between lead-free Sn-Zn based solders and Cu substrates. Journal of Electronic Materials, 2006, 35, 2135-2141.	2.2	11
283	Effects of strain ratio and tensile hold time on low-cycle fatigue of lead-free Sn-3.5Ag-0.5Cu solder. Journal of Electronic Materials, 2006, 35, 292-301.	2.2	20
284	Phase distribution and phase analysis in Cu6Sn5, Ni3Sn4, and the Sn-rich corner in the ternary Sn-Cu-N isotherm at 240°C. Journal of Electronic Materials, 2006, 35, 343-352.	li 2.2	35
285	Reliability of adhesion strength of the Sn-9Zn-1.5Ag-0.5Bi/Cu during isothermal aging. Journal of Electronic Materials, 2006, 35, 966-971.	2.2	4
286	Reliability testing of WLCSP lead-free solder joints. Journal of Electronic Materials, 2006, 35, 1032-1040.	2.2	19
287	Interfacial reaction between Sn-0.7Cu (-Ni) solder and Cu substrate. Journal of Electronic Materials, 2006, 35, 1127-1132.	2.2	82
288	The effect of Ga content on the wetting reaction and interfacial morphology formed between Sn–8.55Zn–0.5Ag–0.1Al–xGa solders and Cu. Scripta Materialia, 2006, 54, 219-224.	5.2	65

#	Article	IF	CITATIONS
289	Three-dimensional (3D) visualization and microstructure-based modeling of deformation in a Sn-rich solder. Scripta Materialia, 2006, 54, 1627-1631.	5.2	39
290	Reactive wetting of solders on Cu and Cu6Sn5/Cu3Sn/Cu substrates using wetting balance. Scripta Materialia, 2006, 55, 823-826.	5.2	36
291	Effect of Cu diffusion through Ni on the interfacial reactions of Sn3.5Ag0.75Cu and SnPb solders with Au/Ni/Cu substrate during aging. Materials Letters, 2006, 60, 1669-1672.	2.6	14
292	Enhancement of electrical properties of anisotropically conductive adhesive joints via low temperature sintering. Journal of Applied Polymer Science, 2006, 99, 1665-1673.	2.6	52
293	The Effect of Intermetallic Compound on Shear Strength of Diffusion Soldered Interconnection. Advanced Engineering Materials, 2006, 8, 176-179.	3.5	3
294	Effect of Presence of Multi-Walled Carbon Nanotubes on the Creep Properties of Sn-Ag-Cu Solder. , 2006, , 161.		1
295	Coffinâ€Manson constant determination for a Snâ€8Znâ€3Bi leadâ€free solder joint. Soldering and Surface Mount Technology, 2006, 18, 4-11.	1.5	10
296	High performance anisotropic conductive adhesives for leadâ€free interconnects. Soldering and Surface Mount Technology, 2006, 18, 33-39.	1.5	11
297	Characterization of Nanoparticles of Lead Free Solder Alloys. , 2006, , .		13
298	Characterization of Mechanical Properties of Eutectic Sn-Co-Cu Lead Free Alloy. , 2006, , .		4
299	Surface tension, viscosity and concentration fluctuations in liquid Ag–In–Sn. Physics and Chemistry of Liquids, 2006, 44, 115-125.	1.2	1
300	Soldering Properties of Sn-Zn-X Micro Solder Powders Fabricated by Melts Dispersion Technique. Advanced Materials Research, 2006, 15-17, 995-1000.	0.3	Ο
301	Fabrication of Lead Free Micro Solder Powder by Melts Dispersion Technique. Materials Science Forum, 2006, 510-511, 570-573.	0.3	0
302	TEM Observation of Interfacial Reaction Layers Formed Between Pb(Lead)-Free Sn-3.5Ag Solder and ENIG Plated Cu Substrate. Materials Science Forum, 2006, 510-511, 554-557.	0.3	4
303	Interfacial Microstructure and Joint Strength of Sn-Ag and Sn-Ag-Cu Lead Free Solders Reflowed on Cu/Ni-P/Au Metallization. Materials Science Forum, 2006, 512, 355-360.	0.3	0
304	Interfacial Reaction of Cu/Sn-Ag/ENIG Sandwich Solder Joint during Aging. Advanced Materials Research, 2006, 15-17, 1001-1007.	0.3	3
305	Interfacial reactions in the Sn–9Zn–(xCu)/Cu and Sn–9Zn–(xCu)/Ni couples. Journal of Materials Research, 2006, 21, 1849-1856.	2.6	63
306	Interfacial reactions of Sn-Cu/Ni couples at 250 °C. Journal of Materials Research, 2006, 21, 2270-2277.	2.6	45

#	Article	IF	CITATIONS
307	High Temperature Aging Study of Intermetallic Compound Formation of Sn-3.5Ag and Sn-4.0Ag-0.5Cu Solders on Electroless Ni (P) Metallization. , 0, , .		2
308	Lead Free SnAg Solder Bumping with Size sub 100 Microns. , 2006, , .		2
309	Intermetallic compound formation in Sn-Co-Cu, Sn-Ag-Cu and eutectic Sn-Cu solder joints on electroless Ni(P) immersion au surface finish after reflow soldering. , 2006, , .		1
310	Electrochemical corrosion study of Pb-free solders. Journal of Materials Research, 2006, 21, 62-70.	2.6	46
311	Comparison of thermodynamic data of the ternary Cu–Sn–Zn system, measured with the EMF and with the calorimetric method. International Journal of Materials Research, 2006, 97, 434-439.	0.8	0
312	A coupled numerical and experimental study on thermo-mechanical fatigue failure in SnAgCu solder joints. , 2007, , .		2
313	Effect of Gold Stud Bump Topology on Reliability of Flip Chip on Flex Interconnects. IEEE Transactions on Advanced Packaging, 2007, 30, 605-615.	1.6	9
314	A New Approach for the Evaluation of Interfacial Reliability in Micro-scale. , 2007, , .		0
315	Torsional Fatigue of 63Sn-37Pb and Sn-0.7Cu Solders. Key Engineering Materials, 2007, 353-358, 2908-2911.	0.4	0
316	A Comparative Study of Failure Mechanisms of Sn-Ag-Cu Assemblies under Temperature Cycling and Board Level Drop Test. , 2007, , .		0
317	Dissolution and interfacial reactions of Fe in molten Sn-Cu and Sn-Pb solders. Journal of Materials Research, 2007, 22, 2924-2929.	2.6	36
318	Wettability and Reliability Evaluation of Sn-9Zn solder on Cu Substrates Using Three Novel Soldering Fluxes. , 2007, , .		0
319	Development of Simple Electrolytes for the Electrodeposition of Pb-Free, Sn-Based Alloy Solder Films. Materials Research Society Symposia Proceedings, 2007, 993, 1.	0.1	0
320	Study on the Mechanical Bend Fatigue of Micro-Joining Soldered Joint with Lead-Free Solder. Key Engineering Materials, 2007, 353-358, 2573-2576.	0.4	1
321	Effect of multiple reflows on mechanical strength of the interface formed between Sn–Zn–Bi solder and Au/Ni/Cu bond pad. Journal of Materials Research, 2007, 22, 40-45.	2.6	1
322	Reactive wetting of Sn0.7Cu–xZn lead-free solders on Cu substrate. Journal of Alloys and Compounds, 2007, 433, 302-305.	5.5	43
323	The effect of crosshead speed on the joint strength between Sn-Zn-Bi lead-free solders and Cu substrate. Journal of Alloys and Compounds, 2007, 436, 112-117.	5.5	35
324	Study of interfacial reactions in Sn–3.5Ag–3.0Bi and Sn–8.0Zn–3.0Bi sandwich structure solder joint with Ni(P)/Cu metallization on Cu substrate. Journal of Alloys and Compounds, 2007, 437, 169-179.	5.5	30

#	Article	IF	CITATIONS
325	Intermetallic compound formation at Sn–3.0Ag–0.5Cu–1.0Zn lead-free solder alloy/Cu interface during as-soldered and as-aged conditions. Journal of Alloys and Compounds, 2007, 438, 110-115.	5.5	67
326	Investigation of interfacial reactions between Sn–Zn solder with electrolytic Ni and electroless Ni(P) metallization. Journal of Alloys and Compounds, 2007, 440, 117-121.	5.5	24
327	Interface reaction systematics in the Cu/In–48Sn/Cu system bonded by diffusion soldering. Intermetallics, 2007, 15, 912-917.	3.9	50
328	Correlations between IMC thickness and three factors in Sn-3Ag-0.5Cu alloy system. Transactions of Nonferrous Metals Society of China, 2007, 17, 686-690.	4.2	6
329	Thermodynamic description of Au-Ag-Si ternary system. Transactions of Nonferrous Metals Society of China, 2007, 17, 1405-1411.	4.2	10
330	Effect of Copper Oxide Layer on Solder Wetting Temperature under a Reduced Atmosphere. , 2007, , .		3
331	Preparation Techniques and Characterization for Sn-3.0Ag-0.5Cu Nanopowders. , 2007, , .		8
332	Tensile Fracture Behavior of Sn-3.0Ag-0.5Cu Solder Joints on Copper. , 2007, , .		3
333	Recent Advances of Conductive Adhesives: A Lead-Free Alternative in Electronic Packaging. , 2007, , B611-B627.		2
334	Physical Properties of the Sn-Ag-Cu-In-X (Zn,Bi) Solder alloys. , 2007, , .		1
335	Numerical Simulation of Creep Strain of PBGA Solders under Thermal Cycling. , 2007, , .		0
336	Sagging Phenomenon of Micro-Solder Joints Fabricated by Laser Reflow Process. , 2007, , .		0
337	Feasibility of Solid State Bonding for Sn-Ag-Cu Solder Bumps in Ambient Air. , 2007, , .		0
338	Thermodynamic Calculation of Phase Equilibria and Its Applications in the Sn-Ag-Cu-Ni-Au System. , 2007, , .		0
339	Solderability of Ni, Fe Elemental and Alloy Platings by SnAgCu. , 2007, , .		0
340	Preparation and Properties of Sn-9Zn-3Bi-Cr Based Lead-free Solder. , 2007, , .		1
341	Interfacial Reactions between Sn-Cu Based Multicomponent Solders and Ni Substrates during Soldering and Aging. , 2007, , .		0
342	Lead-Free Solder Materials: Design For Reliability. , 2007, , A429-A458.		2

ARTICLE IF CITATIONS Intermetallic Formation and Growth., 2007, , 97-126. 0 343 Degradation of solderability of electroless nickel by phosphide particles. Surface and Coatings 344 4.8 Technology, 2007, 202, 268-274. Integrated numerical–experimental analysis of interfacial fatigue fracture in SnAgCu solder joints. 345 2.7 39 International Journal of Solids and Structures, 2007, 44, 5680-5694. Review of non-reactive and reactive wetting of liquids on surfaces. Advances in Colloid and Interface 346 14.7 361 Science, 2007, 133, 61-89. The effect of temperature and strain rate on the tensile properties of a Sn99.3Cu0.7(Ni) lead-free 347 2.4 41 solder alloy. Microelectronic Engineering, 2007, 84, 144-150. Correlation between localized strain and damage in shear-loaded Pb-free solders. Microelectronics Reliability, 2007, 47, 1262-1272. 1.7 Thermomechanical fatigue damage evolution in SAC solder joints. Materials Science & amp; Engineering 349 5.6 87 A: Structural Materials: Properties, Microstructure and Processing, 2007, 445-446, 73-85. Retardation of spalling by the addition of Ag in Sn–Zn–Bi solder with the Au/Ni metallization. Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 445-446, 686-690. 5.6 Fluxless Sn–Ag bonding in vacuum using electroplated layers. Materials Science & Amp; Engineering A: 351 5.6 25 Structural Materials: Properties, Microstructure and Processing, 2007, 448, 345-350. Solder joint reliability evaluation of Sn–Zn/Au/Ni/Cu ball-grid-array package during aging. Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 5.6 452-453, 46-54. Effects of aging treatment on mechanical properties and microstructure of Sn–8.5Zn–0.5Ag–0.01Al–0.1Ga Solder. Materials Science & amp; Engineering A: Structural Materials: 353 5.6 33 Properties, Microstructure and Processing, 2007, 456, 202-209. Effect of copper addition on the microstructure and mechanical properties of lead free solder alloy. Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and 354 5.6 Processing, 2007, 459, 69-74. Interfacial reaction and joint reliability of fine-pitch flip-chip solder bump using stencil printing 355 2.4 6 method. Microelectronic Engineering, 2007, 84, 2640-2645. Effect of displacement rate on ball shear properties for Sn–37Pb and Sn–3.5Ag BGA solder joints during isothermal aging. Microelectronics Reliability, 2007, 47, 2169-2178. 1.7 34 The interfacial reaction between Sn–Ag alloys and Co substrate. Materials Science & Engineering 357 5.6 31 A: Structural Materials: Properties, Microstructure and Processing, 2007, 456, 109-113. Effect of thermal contact heat transfer on solidification of Pb–Sn and Pb-free solders. Materials & 5.1 30 Design, 2007, 28, 1006-1011. Effect of cooling rate on the room-temperature indentation creep of cast lead-free Sn-Bi solder 359 1.8 22 alloys. Physica Štatus Solidi (A) Applications and Materials Science, 2007, 204, 2302-2308. Microstructural aspects of wear in soft tribological alloys. Wear, 2007, 263, 727-735. 3.1

#	Article	IF	CITATIONS
361	On the advantages of using a hypoeutectic Sn–Zn as lead-free solder material. Materials Letters, 2007, 61, 655-658.	2.6	64
362	Formation of bulk Cu6Sn5 intermetallic compounds in Sn–Cu lead-free solders during solidification. Journal of Materials Science, 2007, 42, 5375-5380.	3.7	24
363	Diffusion soldering using a Gallium metallic paste as solder alloy: study of the phase formation systematics. Journal of Materials Science, 2007, 42, 9707-9712.	3.7	12
364	Investigation of interfacial reaction and joint reliability between eutectic Sn–3.5Ag solder and ENIG-plated Cu substrate during high temperature storage test. Journal of Materials Science: Materials in Electronics, 2007, 18, 559-567.	2.2	16
365	Room-temperature indentation creep of lead-free Sn–Bi solder alloys. Journal of Materials Science: Materials in Electronics, 2007, 18, 1071-1078.	2.2	40
366	Microstructure and mechanical properties of Lead-free Sn–Cu solder composites prepared by rapid directional solidification. Journal of Materials Science: Materials in Electronics, 2007, 18, 1235-1238.	2.2	8
367	Effects of Solder Volume on Formation and Redeposition of Au-Containing Intermetallics in Ni/Au-SnAgCu-Ni(P) Solder Joints. Journal of Electronic Materials, 2007, 36, 33-39.	2.2	8
368	Interfacial Reactions in Sn-0.7wt.%Cu/Ni-V Couples at 250°C. Journal of Electronic Materials, 2007, 36, 1121-1128.	2.2	16
369	Current-Induced Phase Partitioning in Eutectic Indium-Tin Pb-Free Solder Interconnect. Journal of Electronic Materials, 2007, 36, 1372-1377.	2.2	19
370	On the Nature of the Interface between Ag3Sn Intermetallics and Sn in Sn-3.5Ag Solder Alloys. Journal of Electronic Materials, 2007, 36, 1615-1620.	2.2	32
371	Thermodynamic Calculation of Phase Equilibria in the Sn-Ag-Cu-Ni-Au System. Journal of Electronic Materials, 2007, 36, 1429-1441.	2.2	12
372	Thermodynamic Assessment of the Ni-Bi Binary System and Phase Equilibria of the Sn-Bi-Ni Ternary System. Journal of Electronic Materials, 2007, 36, 1536-1544.	2.2	31
373	Inhibiting AuSn4 Formation by Controlling the Interfacial Reaction in Solder Joints. Journal of Electronic Materials, 2007, 36, 1476-1482.	2.2	20
374	Wetting behaviour and reactivity of lead free Au–In–Sn and Bi–In–Sn alloys on copper substrates. International Journal of Adhesion and Adhesives, 2007, 27, 409-416.	2.9	62
375	Physicochemical properties of liquid Ag–Bi–Sn. Physica B: Condensed Matter, 2007, 388, 312-317.	2.7	17
376	Effect of substrate metallization on interfacial reactions and reliability of Sn–Zn–Bi solder joints. Microelectronic Engineering, 2007, 84, 328-335.	2.4	40
377	Externally constrained plastic flow in miniaturized metallic structures: A continuum-based approach to thin films, lines, and joints. Progress in Materials Science, 2008, 53, 838-891.	32.8	38
378	Calorimetric investigation of the Cu-Sn-Bi lead-free solder system. Journal of Thermal Analysis and Calorimetry, 2008, 92, 227-232.	3.6	5

#	Article	IF	Citations
379	Three-dimensional (3D) modeling of the thermoelastic behavior of woven glass fiber-reinforced resin matrix composites. Journal of Materials Science, 2008, 43, 6468-6472.	3.7	6
380	Effect of Al content on the formation of intermetallic compounds in Sn–Ag–Zn lead-free solder. Journal of Materials Science: Materials in Electronics, 2008, 19, 247-253.	2.2	14
381	The effects of third alloying elements on the bulk Ag3Sn formation in slowly cooled Sn–3.5Ag lead-free solder. Journal of Materials Science: Materials in Electronics, 2008, 19, 275-280.	2.2	14
382	Size effects in small scaled lead-free solder joints. Journal of Materials Science: Materials in Electronics, 2008, 19, 383-388.	2.2	54
383	Nanoindentation for measuring individual phase mechanical properties of lead free solder alloy. Journal of Materials Science: Materials in Electronics, 2008, 19, 514-521.	2.2	47
384	Thermodynamic Investigations of Cd-Zn-Ga Liquid Solutions. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2008, 39, 551-560.	2.1	2
385	Characterization of Interfacial Reaction Layers Formed Between Sn-3.5Ag Solder and Electroless Ni-Immersion Au-Plated Cu Substrates. Journal of Electronic Materials, 2008, 37, 84-89.	2.2	22
386	Mechanical Size Effects in Miniaturized Lead-Free Solder Joints. Journal of Electronic Materials, 2008, 37, 102-109.	2.2	40
387	The Influence of 0–0.1 wt.% Ni on the Microstructure and Fluidity Length of Sn-0.7Cu-xNi. Journal of Electronic Materials, 2008, 37, 32-39.	2.2	67
388	Mechanical and Electrical Properties of Cu/Sn-3.5Ag/Cu Ball Grid Array (BGA) Solder Joints after Multiple Reflows. Journal of Electronic Materials, 2008, 37, 118-124.	2.2	17
389	Experimental Wettability Study of Lead-Free Solder on Cu Substrates Using Varying Flux and Temperature. Journal of Electronic Materials, 2008, 37, 125-133.	2.2	21
390	Effect of Oxidation on Indium Solderability. Journal of Electronic Materials, 2008, 37, 483-489.	2.2	41
391	Thermodynamic Assessment of Phase Equilibria in the Sn-Ag-Ni System with Key Experimental Verification. Journal of Electronic Materials, 2008, 37, 279-287.	2.2	6
392	Liquidus Projection and Solidification of the Sn-In-Cu Ternary Alloys. Journal of Electronic Materials, 2008, 37, 498-506.	2.2	25
393	Enhancing the Mechanical Response of a Lead-Free Solder Using an Energy-Efficient Microwave Sintering Route. Journal of Electronic Materials, 2008, 37, 860-866.	2.2	19
394	Effect of Zn Addition on Interfacial Reactions Between Sn-4Ag Solder and Ag Substrates. Journal of Electronic Materials, 2008, 37, 1119-1129.	2.2	11
395	Effect of Ionization Characteristics on Electrochemical Migration Lifetimes of Sn-3.0Ag-0.5Cu Solder in NaCl and Na2SO4 Solutions. Journal of Electronic Materials, 2008, 37, 1111-1118.	2.2	38
396	A Comparative Study of Reactive Wetting of Lead and Lead-Free Solders on Cu and (Cu6Sn5/Cu3Sn)/Cu Substrates. Journal of Electronic Materials, 2008, 37, 1640-1647.	2.2	23

#	Article	IF	CITATIONS
397	Interfacial Intermetallic Growth and Strength of Composite Lead-Free Solder Alloy Through Isothermal Aging. Journal of Electronic Materials, 2008, 37, 1598-1604.	2.2	21
398	Effect of Aluminum Concentration on the Interfacial Reactions of Sn-3.0Ag-xAl Solders with Copper and ENIC Metallizations. Journal of Electronic Materials, 2008, 37, 1858-1862.	2.2	9
399	Electrochemical and mechanical behaviour of Snâ€2.5Agâ€0.5Cu and Snâ€48Biâ€2Zn solders. Materials and Corrosion - Werkstoffe Und Korrosion, 2008, 59, 662-669.	1.5	34
400	Intergranular thermal fatigue damage evolution in SnAgCu lead-free solder. Mechanics of Materials, 2008, 40, 780-791.	3.2	45
401	Anodic dissolution characteristics and electrochemical migration lifetimes of Sn solder in NaCl and Na2SO4 solutions. Microelectronic Engineering, 2008, 85, 1597-1602.	2.4	37
402	Morphologies, orientation relationships and evolution of Cu6Sn5 grains formed between molten Sn and Cu single crystals. Acta Materialia, 2008, 56, 2649-2662.	7.9	181
403	Kinetics of Sn electrodeposition from Sn(II)–citrate solutions. Electrochimica Acta, 2008, 53, 8332-8340.	5.2	53
404	Effects of continuously applied stress on tin whisker growth. Microelectronics Reliability, 2008, 48, 1737-1740.	1.7	19
405	Effects of isothermal aging and temperature–humidity treatment of substrate on joint reliability of Sn–3.0Ag–0.5Cu/OSP-finished Cu CSP solder joint. Microelectronics Reliability, 2008, 48, 1864-1874.	1.7	33
406	Correlation between interfacial reactions and shear strengths of Sn-Ag-(Cu and Bi-In)/ENIG plated Cu solder joints. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 483-484, 731-734.	5.6	22
407	Effect of cooling rate on the room-temperature impression. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 487, 20-25.	5.6	35
408	Wetting behaviour of lead-free Sn-based alloys on Cu and Ni substrates. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 495, 108-112.	5.6	61
409	Impression creep of hypoeutectic Sn–Zn lead-free solder alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 491, 110-116.	5.6	47
410	Effect of Zn addition on the formation and growth of intermetallic compound at Sn–3.5wt% Ag/Cu interface. Journal of Alloys and Compounds, 2008, 460, 594-598.	5.5	25
411	Assessment of toxicity potential of metallic elements in discarded electronics: A case study of mobile phones in China. Journal of Environmental Sciences, 2008, 20, 1403-1408.	6.1	78
412	Microstructure and thermo-electrical transport properties of Cd–Sn alloys. Materials Characterization, 2008, 59, 624-630.	4.4	34
413	Phase stability and cohesive properties of Au–Sn intermetallics: A first-principles study. Journal of Materials Research, 2008, 23, 1398-1416.	2.6	15
414	Chapter 5 Elements of alloying behaviour systematics. Pergamon Materials Series, 2008, 13, 319-529.	0.2	0

#	Article	IF	CITATIONS
415	Effect of surface finish on interfacial reactions of Cu/Sn–Ag–Cu/Cu(ENIG) sandwich solder joints. Journal of Alloys and Compounds, 2008, 448, 177-184.	5.5	39
416	Interfacial reaction between Sn–Ag alloys and Ni substrate. Journal of Alloys and Compounds, 2008, 455, 159-163.	5.5	26
417	Surface tension and wetting behaviour of molten Cu–Sn alloys. Journal of Alloys and Compounds, 2008, 452, 161-166.	5.5	50
418	Formation of intermetallic compound (IMC) between Sn and Co substrate. Journal of Alloys and Compounds, 2008, 456, 113-117.	5.5	20
419	Prediction of activities of all components in the lead-free solder systems Bi–In–Sn and Bi–In–Sn–Zn. Journal of Alloys and Compounds, 2008, 457, 124-130.	5.5	36
420	Interfacial intermetallic phases and nanoeutectic in rapidly quenched Sn–Ag–Cu on Au under bump metallization. Journal of Alloys and Compounds, 2008, 457, 113-117.	5.5	7
421	Tensile properties and microstructural characterization of Sn–0.7Cu–0.4Co bulk solder alloy for electronics applications. Journal of Alloys and Compounds, 2008, 457, 97-105.	5.5	55
422	Endurance of lead-free assembly under board level drop test and thermal cycling. Journal of Alloys and Compounds, 2008, 457, 198-203.	5.5	6
423	Properties of solders with low melting point. Journal of Alloys and Compounds, 2008, 457, 323-328.	5.5	33
424	Effect of immersion Ag surface finish on interfacial reaction and mechanical reliability of Sn–3.5Ag–0.7Cu solder joint. Journal of Alloys and Compounds, 2008, 458, 200-207.	5.5	40
425	The growth and roughness evolution of intermetallic compounds of Sn–Ag–Cu/Cu interface during soldering reaction. Journal of Alloys and Compounds, 2008, 458, 542-547.	5.5	103
426	Interfacial microstructures and solder joint strengths of the Sn–8Zn–3Bi and Sn-9Zn–lAl Pb–free solder pastes on OSP finished printed circuit boards. Journal of Alloys and Compounds, 2008, 459, 225-231.	5.5	25
427	Study on the properties of Sn–9Zn–xCr lead-free solder. Journal of Alloys and Compounds, 2008, 460, 478-484.	5.5	88
428	Growth kinetics of intermetallic compounds and tensile properties of Sn–Ag–Cu/Ag single crystal joint. Journal of Alloys and Compounds, 2008, 461, 410-417.	5.5	38
429	Microstructures of eutectic Sn–Ag–Zn solder solidified with different cooling rates. Journal of Alloys and Compounds, 2008, 464, 301-305.	5.5	42
430	Growth mechanism of bulk Ag3Sn intermetallic compounds in Sn–Ag solder during solidification. Intermetallics, 2008, 16, 1142-1148.	3.9	55
431	Corrosion characterization of tin–lead and lead free solders in 3.5wt.% NaCl solution. Corrosion Science, 2008, 50, 995-1004.	6.6	195
432	Microstructure and adhesion strength of Sn–9Zn–1.5Ag–xBi (x=0wt% and 2wt%)/Cu after electrochemical polarization in a 3.5wt% NaCl solution. Journal of Alloys and Compounds, 2008, 461, 160-165.	5.5	9

#	Article	IF	CITATIONS
433	Interfacial reactions and reliability of Sn-Zn-Bi-XCr solder joints with Cu pads. , 2008, , .		1
434	Temperature dependence of mechanical properties of individual phases in Sn-3.0Ag-0.5Cu lead-free solder alloy. , 2008, , .		0
435	Eddy Current Induced Heating for the Solder Reflow of Area Array Packages. IEEE Transactions on Advanced Packaging, 2008, 31, 399-403.	1.6	34
436	Effect of 3 wt.% Bi in Sn-Zn solder on the interfacial reaction with the Au/Ni metallization in microelectronic packaging. , 2008, , .		1
437	Recent advances in the synthesis of lead-free solder nanoparticle. , 2008, , .		4
438	Development of lead-free Sn–0.7Cu/Al ₂ O ₃ nanocomposite solders with superior strength. Journal Physics D: Applied Physics, 2008, 41, 095403.	2.8	72
439	Corrosion performance of Pb-free Sn-Zn solders in salt spray. , 2008, , .		4
440	Room-Temperature Chemical Synthesis of Shape-Controlled Indium Nanoparticles. Journal of the American Chemical Society, 2008, 130, 8140-8141.	13.7	72
441	Gram Level Synthesis of Lead-Free Solder in the Nanometer Length Scale Obtained from Tin and Silver Compounds Using Silicone Oil. Langmuir, 2008, 24, 8991-8997.	3.5	12
442	Initial interfacial reaction layers formed in Sn–3.5Ag solder/electroless Ni–P plated Cu substrate system. Journal of Materials Research, 2008, 23, 2195-2201.	2.6	14
443	Effects of Bi and Ni addition on wettability and melting point of Sn-0.3Ag-0.7Cu Low-Ag Pb-free solder. , 2008, , .		5
444	Ductile-to-brittle transition induced by increasing strain rate in Sn–3Cu/Cu joints. Journal of Materials Research, 2008, 23, 1614-1617.	2.6	16
445	Inhibition of interfacial embrittlement at SnBi/Cu single crystal by electrodeposited Ag film. Journal of Materials Research, 2008, 23, 78-82.	2.6	26
446	Interfacial Reactions in Sn-xZn-Cu/Cu Couples during Soldering. Key Engineering Materials, 0, 373-374, 543-546.	0.4	1
447	Using carbon nanotubes to enhance creep performance of lead free solder. Materials Science and Technology, 2008, 24, 443-448.	1.6	30
448	Creep of dilute tin based lead free solder alloys as replacements of Sn–Pb solders. Materials Science and Technology, 2008, 24, 803-808.	1.6	10
449	Impact Properties of Sn-0.75Cu Lead-Free Solder Ball Joint. Key Engineering Materials, 0, 385-387, 745-748.	0.4	3
450	Rapid cycle-dependent softening of equal channel angularly pressed Sn–Ag–Cu alloy. Journal of Materials Research, 2008, 23, 2630-2638.	2.6	2

#	Article	IF	CITATIONS
451	Solid/solid interfacial reactions between Sn–0.7 wt% Cu and Ni–7 wt% V. Journal of Materials Research, 2008, 23, 1895-1901.	2.6	9
452	Impression creep of a Sn60Pb40 alloy: the effect of electric current. Journal Physics D: Applied Physics, 2008, 41, 155406.	2.8	25
453	Electrocontact heating in a Sn60–Pb40 solder alloy. Journal Physics D: Applied Physics, 2008, 41, 065404.	2.8	11
454	Recent Development of Nano-solder Paste for Electronics Interconnect Applications. , 2008, , .		16
455	Creep of lead-free Sn-3.8Ag and Sn-3.8Ag-0.7Cu solder alloy as replacements of Sn-Pb solder used in microelectronic packaging. , 2008, , .		1
456	In-situ observation on electrochemical migration of lead-free solder joints under water drop test. , 2008, , .		3
457	Lead-Free Soldering Technique by Using Medium-Frequency Electromagnetic Field. , 2008, , .		0
458	Behaviour of electrochemical migration with solder alloys on printed circuit boards (PCBs). Circuit World, 2008, 34, 8-13.	0.9	13
459	Microstructural changes of leadâ€free solder joints during longâ€ŧerm ageing, thermal cycling and vibration fatigue. Soldering and Surface Mount Technology, 2008, 20, 13-21.	1.5	56
460	The liquid structure of Sn-based lead-free solders and the correlative effect in liquid-solid interfacial reaction. Journal of Physics: Conference Series, 2008, 98, 012029.	0.4	14
461	Microstructure evolution based acceleration factor determination for SnAgCu solder joints during thermal cycling. International Journal of Materials and Structural Integrity, 2008, 2, 173.	0.1	0
462	Effect of Surface Contamination on Solid-State Bondability of Sn-Ag-Cu Bumps in Ambient Air. Materials Transactions, 2008, 49, 1508-1512.	1.2	7
463	Numerical Investigation on Self-Organized Interconnection Using Anisotropic Conductive Adhesive with Low Melting Point Alloy Filler. Materials Transactions, 2008, 49, 2572-2578.	1.2	1
464	Wettability of Lead-Free Solders on Gold-Plated Copper Substrates. Materials Transactions, 2008, 49, 1462-1466.	1.2	10
465	Effects of Microstructure Evolution on High-Temperature Mechanical Deformation of 95Sn-5Sb. , 2008, , .		4
466	Thermodynamic framework for coupling of elasto-viscoplasticity and nonlocal anisotropic damage for microelectronics solder alloys. International Journal of Materials and Structural Integrity, 2008, 2, 106.	0.1	4
467	Sub-100â€,μm SnAg Solder Bumping Technology and the Bump Reliability. Journal of Electronic Packaging, Transactions of the ASME, 2009, 131, .	1.8	2
468	The effects of Bi on physical and microstructural characteristics of Sn-Ag-Cu lead-free solders. , 2009, , .		5

CITATION REPORT	
-----------------	--

#	Article	IF	CITATIONS
469	Experimental studies of the temperature dependence of mechanical solder material properties using nanoindentation. , 2009, , .		1
470	Effect of cooling rate on Ag <inf>3</inf> Sn formation in Sn-Ag based lead-free solder. , 2009, , .		10
471	A new Cu-Zn solder wetting layer for improved impact reliability. , 2009, , .		7
472	Design, processing and reliability characterizations of a 3D-WLCSP packaged component. , 2009, , .		10
473	Dramatic morphological change of interfacial prism-type Cu <inf>6</inf> Sn <inf>5</inf> in the Sn3.5Ag/Cu joints reflowed by induction heating. , 2009, , .		1
474	Utilizing energy efficient microwave sintering to significantly enhance the tensile response of a lead-free solder. Journal Physics D: Applied Physics, 2009, 42, 015404.	2.8	1
475	A Binder-Free Ag Paste Using a Chemically Adsorbed Monolayer. Japanese Journal of Applied Physics, 2009, 48, 066506.	1.5	0
476	A study on the orientation relationship between the scallop-type Cu6Sn5 grains and (011) Cu substrate using electron backscattered diffraction. Journal of Applied Physics, 2009, 106, .	2.5	24
477	Preferential growth and orientation relationship of Ag ₃ Sn grains formed between molten Sn and (001) Ag single crystal. Journal of Materials Research, 2009, 24, 2141-2144.	2.6	17
478	250 °C isothermal section of ternary Sn-In-Cu phase equilibria. Journal of Materials Research, 2009, 24, 2628-2637.	2.6	20
479	Oxidation and reduction behavior of pure indium. Journal of Materials Research, 2009, 24, 386-393.	2.6	32
480	Stress behavior of electroplated Sn films during thermal cycling. Journal of Materials Research, 2009, 24, 1522-1528.	2.6	44
481	Eliminating interfacial segregation and embrittlement of bismuth in SnBi/Cu joint by alloying Cu substrate. Scripta Materialia, 2009, 61, 308-311.	5.2	37
482	Wettability of molten Sn–Bi–Cu solder on Cu substrate. Materials Letters, 2009, 63, 2067-2069.	2.6	57
483	Effect of Biâ€content on hardness and microâ€creep behavior of Snâ€3.5Ag rapidly solidified alloy. Crystal Research and Technology, 2009, 44, 1308-1312.	1.3	18
484	The effects of temperature and solders on the wettability between ribbon and solar cell. Solar Energy Materials and Solar Cells, 2009, 93, 864-868.	6.2	32
485	Growth mechanism of Ni3Sn4 in a Sn/Ni liquid/solid interfacial reaction. Acta Materialia, 2009, 57, 5196-5206.	7.9	111
486	Mechanical properties versus temperature relation of individual phases in Sn–3.0Ag–0.5Cu lead-free solder alloy. Microelectronics Reliability, 2009, 49, 296-302.	1.7	42

#	Article	IF	CITATIONS
487	Enhanced rate-dependent tensile deformation in equal channel angularly pressed Sn–Ag–Cu alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 502, 153-158.	5.6	21
488	Nucleation of Sn and Sn–Cu alloys on Pt during electrodeposition from Sn–citrate and Sn–Cu–citrate solutions. Electrochimica Acta, 2009, 54, 3419-3427.	5.2	50
489	Bismuth redistribution induced by intermetallic compound growth in SnBi/Cu microelectronic interconnect. Journal of Materials Science, 2009, 44, 149-153.	3.7	30
490	A review of mechanical properties of lead-free solders for electronic packaging. Journal of Materials Science, 2009, 44, 1141-1158.	3.7	494
491	Mechanical behavior of NiTi shape memory alloy fiber reinforced Sn matrix "smart―composites. Journal of Materials Science, 2009, 44, 700-707.	3.7	25
492	Effect of rare earth addition on shear strength of SnAgCu lead-free solder joints. Journal of Materials Science: Materials in Electronics, 2009, 20, 186-192.	2.2	31
493	Development of lead-free Sn-3.5Ag/SnO2 nanocomposite solders. Journal of Materials Science: Materials in Electronics, 2009, 20, 571-576.	2.2	49
494	Formation of interfacial structure of Sn–3.7Ag–0.9Zn eutectic solder with different Al additions. Journal of Materials Science: Materials in Electronics, 2009, 20, 861-866.	2.2	5
495	Influence of minor Bi additions on the interfacial morphology between Sn–Zn–xBi solders and a Cu layer. Journal of Materials Science: Materials in Electronics, 2009, 20, 1112-1117.	2.2	24
496	Effects of Ga–Ag, Ga–Al and Al–Ag additions on the wetting characteristics of Sn–9Zn–X–Y lead-free solders. Journal of Materials Science: Materials in Electronics, 2009, 20, 1239-1246.	2.2	11
497	A corrosion investigation of solder candidates for high-temperature applications. Jom, 2009, 61, 59-65.	1.9	27
498	Preparation and properties of particle reinforced Sn-Zn-based composite solder. Journal Wuhan University of Technology, Materials Science Edition, 2009, 24, 206-209.	1.0	7
499	Interfacial Reactions in Model NiTi Shape Memory Alloy Fiber-Reinforced Sn Matrix "Smart― Composites. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 176-184.	2.2	23
500	First-Principles Calculation of Phase Stability and Cohesive Properties of Ni-Sn Intermetallics. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 4-23.	2.2	41
501	Effects of Ag and Al Additions on the Structure and Creep Properties of Sn-9Zn Solder Alloy. Journal of Electronic Materials, 2009, 38, 330-337.	2.2	13
502	Morphology and Growth of Intermetallics at the Interface of Sn-based Solders and Cu with Different Surface Finishes. Journal of Electronic Materials, 2009, 38, 241-251.	2.2	19
503	Effects of Thermal Aging on Microstructure and Microhardness of Sn-3.7Ag-0.9Zn-1In Solder. Journal of Electronic Materials, 2009, 38, 345-350.	2.2	10
504	Nanoparticles of the Lead-free Solder Alloy Sn-3.0Ag-0.5Cu with Large Melting Temperature Depression. Journal of Electronic Materials, 2009, 38, 351-355.	2.2	47

#	Article	IF	CITATIONS
505	In Situ Observation of Small-Scale Deformation in a Lead-Free Solder Alloy. Journal of Electronic Materials, 2009, 38, 400-409.	2.2	20
506	Viscosity and Surface Tension of Liquid Sn-Cu Lead-Free Solders. Journal of Electronic Materials, 2009, 38, 828-833.	2.2	44
507	Predicting the Drop Performance of Solder Joints by Evaluating the Elastic Strain Energy from High-Speed Ball Pull Tests. Journal of Electronic Materials, 2009, 38, 410-414.	2.2	30
508	Electrochemical Migration Characteristics of Eutectic Sn-Pb Solder Alloy in NaCl and Na2SO4 Solutions. Journal of Electronic Materials, 2009, 38, 691-699.	2.2	21
509	Peltier Effect on Sn/Co Interfacial Reactions. Journal of Electronic Materials, 2009, 38, 655-662.	2.2	19
510	Lead-Free Bumping Using an Alternating Electromagnetic Field. Journal of Electronic Materials, 2009, 38, 663-669.	2.2	3
511	Microstructure Evolution and the Constitutive Relations of High-Temperature Solders. Journal of Electronic Materials, 2009, 38, 802-809.	2.2	35
512	Tensile and Fatigue Behaviors of Aged Cu/Sn-4Ag Solder Joints. Journal of Electronic Materials, 2009, 38, 852-859.	2.2	26
513	Inhomogeneous Consumption of the Electroless Ni-P Layer at the Solder Joint Formed with Sn-3.5Ag-0.7Cu. Journal of Electronic Materials, 2009, 38, 2554-2562.	2.2	2
514	Multiphase Field Simulations of Intermetallic Compound Growth During Lead-Free Soldering. Journal of Electronic Materials, 2009, 38, 2525-2533.	2.2	26
515	Experimental Investigation and Thermodynamic Assessment of Phase Equilibria in the Ag-Au-Sn System. Journal of Electronic Materials, 2009, 38, 2096-2105.	2.2	7
516	Effect of Thermal Aging on Impact Absorbed Energies of Solder Joints Under High-Strain-Rate Conditions. Journal of Electronic Materials, 2009, 38, 2132-2147.	2.2	6
517	A Study of the Shear Response of a Lead-Free Composite Solder by Experimental and Homogenization Techniques. Journal of Electronic Materials, 2009, 38, 2122-2131.	2.2	14
518	Microstructural Evolution of Sn-Ag-Sb Solder with Indium Additions. Journal of Electronic Materials, 2009, 38, 2112-2121.	2.2	5
519	Effect of Electromigration on Interfacial Reactions in 90Sn-10Sb Pb-Free Solder Joints. Journal of Electronic Materials, 2009, 38, 2398-2404.	2.2	6
520	Investigation of Gold Nanoparticle Inks for Low-Temperature Lead-Free Packaging Technology. Journal of Electronic Materials, 2009, 38, 2720-2725.	2.2	60
521	Characteristics of Sn-2.5Ag flip chip solder joints under thermal shock test conditions. Journal of Mechanical Science and Technology, 2009, 23, 435-441.	1.5	4
522	Flip-chip process using heat transfer from an induction-heating film. Metals and Materials International, 2009, 15, 479-485.	3.4	10

#	Article	IF	CITATIONS
523	Effects of Ga, Al, Ag, and Ce multi-additions on the wetting characteristics of Sn-9Zn lead-free solder. Rare Metals, 2009, 28, 600-605.	7.1	4
524	Effects of composition and cooling rate on the microstructure ofÂSn–3.7Ag–0.9Zn–Bi solders. Applied Physics A: Materials Science and Processing, 2009, 96, 969-973.	2.3	9
525	Joining and Interconnect Formation of Nanowires and Carbon Nanotubes for Nanoelectronics and Nanosystems. Small, 2009, 5, 1246-1257.	10.0	102
526	Research advances in nano-composite solders. Microelectronics Reliability, 2009, 49, 223-234.	1.7	207
527	Electrochemical composite deposition of Sn–Ag–Cu alloys. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2009, 164, 172-179.	3.5	30
528	Electrochemical corrosion study of Sn–3Ag–3Cu solder alloy in NaCl solution. Electrochimica Acta, 2009, 54, 7231-7235.	5.2	89
529	Thermodynamic investigations of Sn–Zn–Ga liquid solutions. Thermochimica Acta, 2009, 487, 18-25.	2.7	19
530	Indentation creep of lead-free Sn–9Zn and Sn–8Zn–3Bi solder alloys. Materials & Design, 2009, 30, 574-580.	5.1	72
531	Integrating copper at the nanometer length scale with Sn–3·5Ag solder to develop high performance nanocomposites. Materials Science and Technology, 2009, 25, 1258-1264.	1.6	5
532	Interfacial reaction and mechanical reliability of eutectic Sn–0·7Cu/immersion Ag-plated Cu solder joint. Materials Science and Technology, 2009, 25, 1478-1484.	1.6	5
533	Effects of nitrogen on wettability and reliability of lead-free solder in reflow soldering. , 2009, , .		6
534	Re-assessment of diffusion mobilities in the face-centered cubic Cu–Sn alloys. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2009, 33, 704-710.	1.6	21
535	Effects of rare earth Ce on microstructures, solderability of Sn–Ag–Cu and Sn–Cu–Ni solders as well as mechanical properties of soldered joints. Journal of Alloys and Compounds, 2009, 467, 219-226.	5.5	95
536	Effects of aging on structural evolution of the rapidly solidified Sn–Ag–Zn eutectic solder. Journal of Alloys and Compounds, 2009, 468, 154-157.	5.5	32
537	Solid-state and liquid-state interfacial reactions between Sn-based solders and single crystal Ag substrate. Journal of Alloys and Compounds, 2009, 469, 207-214.	5.5	16
538	Effects of small addition of In on the structure of the rapidly cooled Sn–Ag–Zn solder. Journal of Alloys and Compounds, 2009, 470, 145-149.	5.5	10
539	Development of high strength Sn–Cu solder using copper particles at nanolength scale. Journal of Alloys and Compounds, 2009, 476, 199-206.	5.5	47
540	Effects of ZrO2 nanoparticles on the mechanical properties of Sn–Zn solder joints on Au/Ni/Cu pads. Journal of Alloys and Compounds, 2009, 477, 552-559.	5.5	67

#	Article	IF	CITATIONS
541	Microstructural evolution and tensile properties of Sn–Ag–Cu mixed with Sn–Pb solder alloys. Journal of Alloys and Compounds, 2009, 477, 267-273.	5.5	45
542	Effect of metal/ceramic nanoparticle-doped fluxes on the wettability between Sn–Ag–Cu solder and a Cu layer. Journal of Alloys and Compounds, 2009, 477, 909-914.	5.5	50
543	Reinforcements at nanometer length scale and the electrical resistivity of lead-free solders. Journal of Alloys and Compounds, 2009, 478, 458-461.	5.5	51
544	Strengthening mechanism of SiC-particulate reinforced Sn–3.7Ag–0.9Zn lead-free solder. Journal of Alloys and Compounds, 2009, 480, 662-665.	5.5	67
545	Investigation on properties of Sn–8Zn–3Bi lead-free solder by Nd addition. Journal of Alloys and Compounds, 2009, 480, 903-907.	5.5	25
546	Interfacial reactions between Sn–8Zn–3Bi–xAg lead-free solders and Cu substrate. Journal of Alloys and Compounds, 2009, 482, 90-98.	5.5	19
547	Nanoparticles of SnAgCu lead-free solder alloy with an equivalent melting temperature of SnPb solder alloy. Journal of Alloys and Compounds, 2009, 484, 777-781.	5.5	71
548	Fracture mechanism and strength-influencing factors of Cu/Sn–4Ag solder joints aged for different times. Journal of Alloys and Compounds, 2009, 485, 853-861.	5.5	37
549	LED and Optical Device Packaging and Materials. , 2009, , 629-680.		11
550	Surface Tension of Molten Cuâ~'Sn Alloys under Different Oxygen Containing Atmospheres. Journal of Chemical & Engineering Data, 2009, 54, 1660-1665.	1.9	23
551	The fabrication of composite solder by addition of copper nano powder into Sn-3.5Ag solder. , 2009, , .		3
552	Microstructural evolution of Sn-3.5Ag solder with lanthanum addition. , 2009, , .		0
553	Effect of Zn addition on microstructure of Sn-Bi joint. , 2009, , .		1
554	Study on the microstructure and the Shear Strength of Sn-0.7Cu-xZn. , 2009, , .		0
555	Effects of surface finishes on the intermetallic growth and micro-structure evolution of the Sn3.5Ag0.7Cu lead-free solder joints. , 2009, , .		5
556	Investigation of the Dynamic Reactive Wetting of Sn-Ag-Cu Solder Alloys on Ni(P)/Au Coated Cu Substrates. Materials Transactions, 2009, 50, 2695-2698.	1.2	20
557	Wettability of Low Silver Content Lead-Free Solder Alloy. Materials Transactions, 2009, 50, 1135-1138.	1.2	11
558	Effects of Thermal Storage and Cu Addition on Adhesive Strength and Microstructure of Sn-3.0 mass% Ag-1.5 mass% Sb- <l>x</l> Cu Solder Joints. Materials Transactions, 2009, 50, 899-908.	1.2	0

#	Article	IF	CITATIONS
559	Laser Soldering of Fine Pitch QFP Devices Using Lead-Free Solders. Journal of Electronic Packaging, Transactions of the ASME, 2009, 131, .	1.8	7
560	Electrical and mechanical properties of Sn-5wt.%Sb alloy with annealing temperature. EPJ Applied Physics, 2009, 45, 10901.	0.7	4
561	Melting temperature depression of Snâ€0.4Coâ€0.7Cu leadâ€free solder nanoparticles. Soldering and Surface Mount Technology, 2009, 21, 9-13.	1.5	19
562	Controlling the morphology and orientation of Cu <inf>6</inf> Sn <inf>5</inf> through designing the orientations of Cu single crystals. , 2009, , .		2
563	Effects of sintering and its type on microstructural and tensile response of pure tin. Powder Metallurgy, 2009, 52, 105-110.	1.7	8
564	Interfacial reactions between Snâ€Cu based multicomponent solders and Ni substrates during soldering and aging. Soldering and Surface Mount Technology, 2009, 21, 19-23.	1.5	5
565	Creep properties of Snâ€0.7Cu composite solder joints reinforced with nanoâ€sized Ag particles. Soldering and Surface Mount Technology, 2010, 22, 50-56.	1.5	3
566	Effects of Zn additions on the structure of the soldered Sn-3.5Ag and Cu interfaces. Soldering and Surface Mount Technology, 2010, 22, 13-20.	1.5	8
567	A comparative study of room-temperature creep in lead-free tin-based solder alloys. International Journal of Materials Research, 2010, 101, 271-278.	0.3	8
568	Determination of Spread Activation Energy and Assessment of Wetting Behavior of Solders on Metallic Substrates. Journal of Electronic Packaging, Transactions of the ASME, 2010, 132, .	1.8	8
569	Mechanism of the Delayed Growth of Intermetallic Compound at the Interface between Sn-4.0Ag-0.5Cu and Cu-Zn Substrate. Electronic Materials Letters, 2010, 6, 151-154.	2.2	35
570	Early stages of intermetallic compound formation and growth during lead-free soldering. Acta Materialia, 2010, 58, 4900-4910.	7.9	88
571	Laser moiré interferometry for fatigue life prediction of lead-free solders. Microelectronics Reliability, 2010, 50, 2026-2036.	1.7	1
572	Numerical study of ductile failure morphology in solder joints under fast loading conditions. Microelectronics Reliability, 2010, 50, 2059-2070.	1.7	17
573	Electrical conductivity changes of bulk tin and Sn-3.0Ag-0.5Cu in bulk and in joints during isothermal aging. International Journal of Minerals, Metallurgy and Materials, 2010, 17, 453-458.	4.9	5
574	Development of materials design tool and its application in Pb-free micro-solders in electronic package. Science China Technological Sciences, 2010, 53, 1495-1500.	4.0	1
575	Interfacial Reactions Between Sn-Zn Alloys and Ni Substrates. Journal of Electronic Materials, 2010, 39, 209-214.	2.2	21
576	Impression Creep of a Lead-Free Sn-1.7Sb-1.5Ag Solder Reinforced by Submicron-Size Al2O3 Particles. Journal of Electronic Materials, 2010, 39, 215-222.	2.2	26

#	Article	IF	CITATIONS
577	Interfacial Reaction of Sn and Cu-xZn Substrates After Reflow and Thermal Aging. Journal of Electronic Materials, 2010, 39, 230-237.	2.2	50
578	Phase Equilibria in the Sn-Ni-Zn Ternary System: Isothermal Sections at 200°C, 500°C, and 800°C. Journal of Electronic Materials, 2010, 39, 2643-2652.	2.2	27
579	Formation and Growth of Intermetallic Compound Cu6Sn5 at Early Stages in Lead-Free Soldering. Journal of Electronic Materials, 2010, 39, 2574-2582.	2.2	37
580	Effect of DC Current on the Creep Deformation of Tin. Journal of Electronic Materials, 2010, 39, 2611-2617.	2.2	19
581	Impression Creep Behavior of Zn-Sn High-Temperature Lead-Free Solders. Journal of Electronic Materials, 2010, 39, 2495-2502.	2.2	32
582	Interfacial Reactions of Sn-3.0Ag-0.5Cu Solder with Cu-Mn UBM During Aging. Journal of Electronic Materials, 2010, 39, 2522-2527.	2.2	17
583	Reactions of Sn-3.5Ag-Based Solders Containing Zn and Al Additions on Cu and Ni(P) Substrates. Journal of Electronic Materials, 2010, 39, 2720-2731.	2.2	51
584	Using Microwave-Assisted Powder Metallurgy Route and Nano-size Reinforcements to Develop High-Strength Solder Composites. Journal of Materials Engineering and Performance, 2010, 19, 335-341.	2.5	43
585	Diffusion and Atomic Mobilities in fcc Ni-Sn Alloys. Journal of Phase Equilibria and Diffusion, 2010, 31, 28-33.	1.4	4
586	Synthesis and DSC study on Sn3.5Ag alloy nanoparticles used for lower melting temperature solder. Journal of Materials Science: Materials in Electronics, 2010, 21, 868-874.	2.2	38
587	Effects of Ga, Al, Ag, and Ce multi-additions on the properties of Sn–9Zn lead-free solder. Journal of Materials Science: Materials in Electronics, 2010, 21, 111-119.	2.2	26
588	A review on the interfacial intermetallic compounds between Sn–Ag–Cu based solders and substrates. Journal of Materials Science: Materials in Electronics, 2010, 21, 421-440.	2.2	140
589	Effect of solidification parameters on the microstructure of Sn-3.7Ag-0.9Zn solder. Materials Characterization, 2010, 61, 1260-1267.	4.4	21
590	Interfacial reactions between Sn–8Zn–3Bi–xNi lead-free solders and Cu substrate during isothermal aging. Materials Chemistry and Physics, 2010, 123, 629-633.	4.0	18
591	Effect of Ag addition on the corrosion properties of Snâ€based solder alloys. Materials and Corrosion - Werkstoffe Und Korrosion, 2010, 61, 30-33.	1.5	31
592	Effects of aging time, strain rate and solder thickness on interfacial fracture behaviors of Sn–3Cu/Cu single crystal joints. Microelectronic Engineering, 2010, 87, 601-609.	2.4	27
593	Wetting properties and interfacial microstructures of Sn–Zn–xGa solders on Cu substrate. Materials & Design, 2010, 31, 2196-2200.	5.1	41
594	Fatigue fracture mechanisms of Cu/lead-free solders interfaces. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 1367-1376.	5.6	43

#	Article	IF	CITATIONS
595	Electrodeposition and characterisation of Sn–Ag–Cu solder alloys for flip-chip interconnection. Electrochimica Acta, 2010, 56, 183-192.	5.2	27
596	Surface tension and density of liquid Sn–Cu alloys. Applied Surface Science, 2010, 257, 468-471.	6.1	24
597	Effect of Ni Addition on the Formation and Growth of Intermetallic Compound at Eutectic SnBi/Cu Interface. Advanced Materials Research, 0, 160-162, 709-714.	0.3	0
598	The Correlation between the Liquid Structure and the Viscosity of Sn-Cu Lead-Free Solders. Advanced Materials Research, 2010, 97-101, 679-682.	0.3	0
599	The Correlation between the Liquid Structure and the Solidification Microstructure of Sn-Cu Lead-Free Solders. Materials Science Forum, 2010, 654-656, 1385-1388.	0.3	0
600	Improving tensile and fatigue properties of Sn–58Bi/Cu solder joints through alloying substrate. Journal of Materials Research, 2010, 25, 303-314.	2.6	40
601	Co alloying and size effects on solidification and interfacial reactions in the Sn–Zn–(Co)/Cu couples. Journal of Materials Research, 2010, 25, 2430-2438.	2.6	20
602	Abnormal spalling phenomena in the Sn-0.7Cu/Au/Ni/SUS304 interfacial reactions. Journal of Materials Research, 2010, 25, 2278-2286.	2.6	10
603	Effects of Ge Doping on Electrochemical Migration, Corrosion Behavior and Oxidation Characteristics of Lead-Free Sn-3.0Ag-0.5Cu Solder for Electronic Packaging. Advanced Materials Research, 2010, 146-147, 953-961.	0.3	4
604	Nanolead-Free Solder Pastes for Low Processing Temperature Interconnect Applications in Microelectronic Packaging. , 2010, , 217-246.		3
605	Fatigue fracture mechanisms of Cu/lead-free solders interfaces. , 2010, , .		2
606	Application of electron backscatter diffraction to the study on orientation distribution of intermetallic compounds at heterogeneous interfaces (Sn/Ag and Sn/Cu). Journal of Applied Physics, 2010, 108, 103518.	2.5	17
607	Microstructure and property of Sn-Zn-Cu-Bi lead free solder. , 2010, , .		1
608	Growth of Sn Whiskers on Semiconductor and Insulator Surfaces. , 2010, , .		7
609	Growth kinetics of the intermetallic compounds during the interfacial reactions between Sn3.5Ag0.9Cu-nanoTiO <inf>2</inf> alloys and Cu substrate. , 2010, , .		4
610	Thermodynamic assessment of phase equilibria in the Sn-Au-Bi system with key experimental verification. Journal of Materials Research, 2010, 25, 576-586.	2.6	5
611	Study of VOC-Free, No-Clean Flux for Lead-Free Soldering in Electronic Packaging. Advanced Materials Research, 0, 154-155, 1012-1018.	0.3	2
612	Deployment of a reflow process model to support quality and reliability in PCA manufacturing. , 2010, , .		0

#	Article	IF	CITATIONS
613	Effects of Zn, Ge doping on electrochemical migration, oxidation characteristics and corrosion behavior of lead-free Sn-3.0Ag-0.5Cu solder for electronic packaging. , 2010, , .		5
614	Development of Sn-Zn-Cu lead free solder. , 2010, , .		1
615	Crack propagation of single crystal Â-Sn during in situ TEM straining. Journal of Electron Microscopy, 2010, 59, S61-S66.	0.9	1
616	Thermophysical properties of liquid tin–bismuth alloys. International Journal of Materials Research, 2010, 101, 839-844.	0.3	25
617	Effect of isothermal aging on room temperature impression creep of lead free Sn–9Zn and Sn–8Zn–3Bi solders. Materials Science and Technology, 2010, 26, 1001-1007.	1.6	4
618	Reactive wetting behaviors of Sn/Cu systems: A molecular dynamics study. Nano-Micro Letters, 2010, 2, 60-67.	27.0	17
619	Effects of Ni addition on the interfacial reactions between Sn–Cu solders and Ni substrate. Intermetallics, 2010, 18, 616-622.	3.9	50
620	Effect of Bi addition on the activation energy for the growth of Cu5Zn8 intermetallic in the Sn–Zn lead-free solder. Intermetallics, 2010, 18, 730-735.	3.9	88
621	Thermal and electrical conductivity of Sn–Ag–In alloys. Journal of Non-Crystalline Solids, 2010, 356, 1795-1801.	3.1	12
622	Microstructural evolution of intermetallic compounds in Sn–3.5Ag–X (X = 0, 0.75Ni, 1.0Zn and) Tj ETQq1 1 (0.784314	rgBT /Overlo
			20
623	Investigation of small Sn–3.5Ag–0.5Cu additions on the microstructure and properties of Sn–8Zn–3Bi solder on Au/Ni/Cu pads. Journal of Alloys and Compounds, 2010, 489, 678-684.	5.5	32
623 624	Investigation of small Sn–3.5Ag–0.5Cu additions on the microstructure and properties of Sn–8Zn–3Bi solder on Au/Ni/Cu pads. Journal of Alloys and Compounds, 2010, 489, 678-684. Effect of addition of nano-copper and extrusion temperature on the microstructure and mechanical response of tin. Journal of Alloys and Compounds, 2010, 490, 110-117.	5.5	32
623 624 625	Investigation of small Snâ€"3.5Agâ€"0.5Cu additions on the microstructure and properties of Snâ€"8Znâ€"3Bi solder on Au/Ni/Cu pads. Journal of Alloys and Compounds, 2010, 489, 678-684.Effect of addition of nano-copper and extrusion temperature on the microstructure and mechanical response of tin. Journal of Alloys and Compounds, 2010, 490, 110-117.Mechanical property and fracture behavior characterizations of 96.5 Snâ€"3.0 Agâ€"0.5 Cu solder joints. Journal of Alloys and Compounds, 2010, 490, 508-514.	5.5 5.5 5.5	32 7 24
623 624 625 626	Investigation of small Snâ€"3.5Agâ€"0.5Cu additions on the microstructure and properties of Snâ€"8Znâ€"3BiSolder on Au/Ni/Cu pads. Journal of Alloys and Compounds, 2010, 489, 678-684.Effect of addition of nano-copper and extrusion temperature on the microstructure and mechanical response of tin. Journal of Alloys and Compounds, 2010, 490, 110-117.Mechanical property and fracture behavior characterizations of 96.5 Snâ€"3.0 Agâ€"0.5 Cu solder joints. Journal of Alloys and Compounds, 2010, 490, 508-514.Effect of phosphorus element on the comprehensive properties of Snâ€"Cu lead-free solder. Journal of Alloys and Compounds, 2010, 491, 382-385.	5.5 5.5 5.5 5.5	32 7 24 37
623 624 625 626	Investigation of small Sn–3.5Ag–0.5Cu additions on the microstructure and properties of Sn–8Zn–3BiEffect on Au/Ni/Cu pads. Journal of Alloys and Compounds, 2010, 489, 678-684.Effect of addition of nano-copper and extrusion temperature on the microstructure and mechanical response of tin. Journal of Alloys and Compounds, 2010, 490, 110-117.Mechanical property and fracture behavior characterizations of 96.5 Sn–3.0 Ag–0.5 Cu solder joints. Journal of Alloys and Compounds, 2010, 490, 508-514.Effect of phosphorus element on the comprehensive properties of Sn–Cu lead-free solder. Journal of Alloys and Compounds, 2010, 491, 382-385.Phase equilibria and solidification of ternary Sn–Bi–Ag alloys. Journal of Alloys and Compounds, 2010, 497, 110-117.	5.5 5.5 5.5 5.5 5.5	32 7 24 37 20
 623 624 625 626 627 628 	Investigation of small Snâ€"3.5Agâ€"0.5Cu additions on the microstructure and properties of Snâ€"8Znâ€"3BiEffect of addition of nano-copper and extrusion temperature on the microstructure and mechanical response of tin. Journal of Alloys and Compounds, 2010, 490, 110-117.Mechanical property and fracture behavior characterizations of 96.5 Snâ€"3.0 Agâ€"0.5 Cu solder joints. Journal of Alloys and Compounds, 2010, 490, 508-514.Effect of phosphorus element on the comprehensive properties of Snâ€"Cu lead-free solder. Journal of Alloys and Compounds, 2010, 491, 382-385.Phase equilibria and solidification of ternary Snâ€"Biã€"Ag alloys. Journal of Alloys and Compounds, 2010, 497, 110-117.Mechanical alloying synthesis and soldering microstructures of nanocrystalline Snâ€"3.5Agâ€"0.7Cu alloy powders. Journal of Alloys and Compounds, 2010, 497, 396-401.	5.5 5.5 5.5 5.5 5.5 5.5	32 7 24 37 20 9
 623 624 625 626 627 628 629 	Investigation of small Snâ€"3.5Agâ€"0.5Cu additions on the microstructure and properties of Snâ€"8Znâ€"3BiSolder on Au/Ni/Cu pads. Journal of Alloys and Compounds, 2010, 489, 678-684.Effect of addition of nano-copper and extrusion temperature on the microstructure and mechanical response of tin. Journal of Alloys and Compounds, 2010, 490, 110-117.Mechanical property and fracture behavior characterizations of 96.5 Snâ€"3.0 Agâ€"0.5 Cu solder joints. Journal of Alloys and Compounds, 2010, 490, 508-514.Effect of phosphorus element on the comprehensive properties of Snâ€"Cu lead-free solder. Journal of Alloys and Compounds, 2010, 491, 382-385.Phase equilibria and solidification of ternary Snâ€"Biâ€"Ag alloys. Journal of Alloys and Compounds, 2010, 497, 110-117.Mechanical alloying synthesis and soldering microstructures of nanocrystalline Snâ€"3.5Agâ€"0.7Cu alloy powders. Journal of Alloys and Compounds, 2010, 497, 396-401.Effects of cerium content on wettability, microstructure and mechanical properties of Snâ€"Agâ€"Ce solder alloys. Journal of Alloys and Compounds, 2010, 499, 154-159.	5.5 5.5 5.5 5.5 5.5 5.5 5.5	 32 7 24 37 20 9 40
#	Article	IF	CITATIONS
-----	---	-----	-----------
631	Electrochemical corrosion behaviour of Bi–11Ag alloy for electronic packaging applications. Corrosion Science, 2010, 52, 2519-2524.	6.6	14
632	Oxidation of liquid solders for die attachment. Corrosion Science, 2010, 52, 4011-4016.	6.6	8
633	Effect of Ag-content on structure, corrosion behaviour and mechanical properties of Sn-9Zn lead-free solder alloy. EPJ Applied Physics, 2010, 52, 31302.	0.7	4
634	Solution Synthesis of Monodisperse Indium Nanoparticles and Highly Faceted Indium Polyhedra. Crystal Growth and Design, 2010, 10, 3854-3858.	3.0	28
635	High Lateral Resolution Auger Electron Spectroscopic (AES) Measurements for Sn Whiskers on Brass. IEEE Transactions on Electronics Packaging Manufacturing, 2010, 33, 198-204.	1.4	11
636	Interfacial reaction and melting/solidification characteristics between Sn and different metallizations of Cu, Ag, Ni and Co. , 2010, , .		1
637	Oxidation properties of Sn-Cu-Ni solders with minor alloying additions. , 2010, , .		1
638	Predictive Model Development for Life Prediction of PBGA Packages With SnAgCu Solder Joints. IEEE Transactions on Components and Packaging Technologies, 2010, 33, 84-97.	1.3	14
639	Abnormal growth of intermetallic compounds in asymmetrical Cu/Sn/Ag couples. , 2010, , .		1
640	Morphology and growth mechanisms of SAC305-xNi/pad joints intermetallic compounds. , 2010, , .		2
641	Thermo-compression bonding of electrodes between FPCB and RPCB. , 2010, , .		1
642	Electrochemical corrosion and oxidation behaviors of high temperature Pb-free solders. , 2010, , .		0
643	Improving Sn-0.3Ag-0.7Cu low-Ag lead-free solder performance by adding Bi element. , 2010, , .		5
644	Influence of mixed rare earth addition on the microstructure of the Sn-Cu-Ni solder and interfacial reaction of Cu/Sn-Cu-Ni/Cu joints. , 2011, , .		0
645	Growth of Sn Whiskers under Net Compressive and Tensile Stress States. , 2011, , .		7
646	Corrosion of Sn-0.75Cu solder and Sn-0.75Cu/Cu joint in salt solutions. , 2011, , .		1
647	Influence of nano-TiO <inf>2</inf> reinforcements on the wettability and interfacial reactions of novel lead-free Sn3.5AgO.5Zn composite solder/Cu solder joints. , 2011, , .		1
648	Effect of rapid thermal cycles on the microstructure of single solder joint. , 2011, , .		13

# 649	ARTICLE Microstructure and mechanical properties of Sn3Ag0.5Cu3Bi0.05Cr/Cu joints. , 2011, , .	IF	CITATIONS
650	Effect of Al <inf>2</inf> O <inf>3</inf> addition in Sn-Ag-Cu solder balls on the microstructure and shearing strength of BGA packages with immersion Sn surface finish. , 2011, , .		1
651	Thermal Cycling Reliability of Lead-Free Solders (SAC305 and Sn3.5Ag) for High-Temperature Applications. IEEE Transactions on Device and Materials Reliability, 2011, 11, 328-338.	2.0	52
652	Effect of solder volume on reliability in shape-designed CuCGA interconnect. , 2011, , .		Ο
653	Protrusion and whisker growth on tin coated copper substrate under stresses. Materials Science and Technology, 2011, 27, 1271-1274.	1.6	4
654	Die Attach Materials for High Temperature Applications: A Review. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2011, 1, 457-478.	2.5	365
655	Preparation of PVP coated Cu NPs and the application for low-temperature bonding. Journal of Materials Chemistry, 2011, 21, 15981.	6.7	183
656	Role of Zinc on Shear Property Evolution between Sn-0.7Cu Solder and Joints. Procedia Engineering, 2011, 16, 807-811.	1.2	8
657	Challenges for Capillary Self-Assembly of Microsystems. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2011, 1, 133-149.	2.5	23
658	Thermal Fatigue and Failure Analysis of SnAgCu Solder Alloys With Minor Pb Additions. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2011, 1, 1594-1600.	2.5	34
659	Low-Temperature Solid-State Silver Bonding of Silicon Chips to Alumina Substrates. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2011, 1, 1983-1987.	2.5	14
660	Synthesis of Indium Nanoparticles: Digestive Ripening under Mild Conditions. Inorganic Chemistry, 2011, 50, 5000-5005.	4.0	53
661	Computational investigation of intermetallic compounds (Cu6Sn5 and Cu3Sn) growth during solid-state aging process. Computational Materials Science, 2011, 50, 1692-1700.	3.0	26
662	Spectroscopic investigation of oxidized solder surfaces. Corrosion Science, 2011, 53, 2283-2288.	6.6	8
663	Fracture of sustained tensile-loaded Sn–3.0Ag–0.5Cu solder alloy in NaCl solution. Corrosion Science, 2011, 53, 3331-3336.	6.6	11
664	Bismuth segregation enhances intermetallic compound growth in SnBi/Cu microelectronic interconnect. Journal of Alloys and Compounds, 2011, 509, 1785-1789.	5.5	40
665	Evolution of Ag3Sn intermetallic compounds during solidification of eutectic Sn–3.5Ag solder. Journal of Alloys and Compounds, 2011, 509, 2510-2517.	5.5	43
666	Interfacial reactions between high-Pb solders and Ag. Journal of Alloys and Compounds, 2011, 509, 3509-3514.	5.5	21

#	Article	IF	CITATIONS
667	Sequential interfacial intermetallic compound formation of Cu6Sn5 and Ni3Sn4 between Sn–Ag–Cu solder and ENEPIG substrate during a reflow process. Journal of Alloys and Compounds, 2011, 509, L153-L156.	5.5	70
668	Evolution of Ag3Sn at Sn–3.0Ag–0.3Cu–0.05Cr/Cu joint interfaces during thermal aging. Journal of Alloys and Compounds, 2011, 509, 6666-6672.	5.5	39
669	Effects of current density and temperature on Sn/Ni interfacial reactions under current stressing. Intermetallics, 2011, 19, 75-80.	3.9	49
670	Thermodynamic optimization of Bi-Ni binary system. Transactions of Nonferrous Metals Society of China, 2011, 21, 139-145.	4.2	25
671	Effect of Bismuth on Intermetallic Compound Growth in Lead Free Solder/Cu Microelectronic Interconnect. Journal of Materials Science and Technology, 2011, 27, 741-745.	10.7	22
672	Economics of materials. , 0, , 61-70.		0
673	Development of a leadâ€free solder: Snâ€4.0Biâ€3.7Agâ€0.9Zn. Soldering and Surface Mount Technology, 2011, 23, 15-21.	1.5	0
674	Addition of cobalt nanoparticles into Snâ€3.8Agâ€0.7Cu leadâ€free solder by paste mixing. Soldering and Surface Mount Technology, 2011, 23, 10-14.	1.5	40
675	Low Temperature Solid State Gold Bonding of Si Chips to Alumina Substrates. Journal of Electronic Packaging, Transactions of the ASME, 2011, 133, .	1.8	3
676	Tensile strength of fine pitch QFP leadâ€free soldered joints with diode laser soldering. Soldering and Surface Mount Technology, 2011, 23, 177-183.	1.5	9
677	Effect of additions of ZrO2 nano-particles on the microstructure and shear strength of Sn–Ag–Cu solder on Au/Ni metallized Cu pads. Microelectronics Reliability, 2011, 51, 2306-2313.	1.7	105
678	Synthesis creep behavior of Sn63Pb37 under the applied stress and electric current. Microelectronics Reliability, 2011, 51, 2336-2340.	1.7	15
679	Microstructure and tensile behavior of Sn–5Sb lead-free solder alloy containing Bi and Cu. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 530, 402-410.	5.6	51
680	In-situ observations on fracture behaviors of Cu–Sn IMC layers induced by deformation of Cu substrates. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 530, 452-461.	5.6	13
681	Solderability of Sn-0.7Cu/Si3N4 lead-free composite solder on Cu-substrate. Physics Procedia, 2011, 22, 299-304.	1.2	48
682	Influence of process parameters on SAC305 lead-free solder powder produced by centrifugal atomization. Powder Technology, 2011, 214, 506-512.	4.2	44
683	Coarsening mechanisms, texture evolution and size distribution of Cu6Sn5 between Cu and Sn-based solders. Materials Chemistry and Physics, 2011, 131, 190-198.	4.0	20
684	Effect of Sb addition on the tensile deformation behavior of lead-free Sn–3.5Ag solder alloy. Materials & Design, 2011, 32, 5027-5032.	5.1	24

#	Article	IF	CITATIONS
685	Electrochemical behavior of a lead-free SnAg solder alloy affected by the microstructure array. Materials & Design, 2011, 32, 4763-4772.	5.1	58
686	Effect of addition of TiO2 nanoparticles on the microstructure, microhardness and interfacial reactions of Sn3.5AgXCu solder. Materials & Design, 2011, 32, 4720-4727.	5.1	112
687	Development of thermodynamic and kinetic databases in micro-soldering alloy systems and their applications. Progress in Natural Science: Materials International, 2011, 21, 97-110.	4.4	5
688	In situ observations on creep fatigue fracture behavior of Sn–4Ag/Cu solder joints. Acta Materialia, 2011, 59, 6017-6028.	7.9	57
689	A novel method of reducing melting temperatures in SnAg and SnCu solder alloys. Journal of Materials Science: Materials in Electronics, 2011, 22, 281-285.	2.2	9
690	The microstructure and properties of the Sn-xBi-0.9Zn-0.3Ag lead-free solders. Journal of Materials Science: Materials in Electronics, 2011, 22, 592-595.	2.2	7
691	Electrical conductivity and viscosity of liquid Sn–Sb–Cu alloys. Journal of Materials Science: Materials in Electronics, 2011, 22, 631-638.	2.2	10
692	Effect of adding Ce on interfacial reactions between Sn–Ag solder and Cu. Journal of Materials Science: Materials in Electronics, 2011, 22, 745-750.	2.2	14
693	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
694	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
695	Investigations of wetting properties of Ni–V and Ni–Co alloys by Sn, Sn–Pb, Sn–Cu, and Sn–Ag–Cu solders. Journal of the Taiwan Institute of Chemical Engineers, 2011, 42, 350-355.	5.3	13
696	In situ observations on shear and creep–fatigue fracture behaviors of SnBi/Cu solder joints. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 2686-2693.	5.6	27
697	Fabrication, microstructure, and mechanical properties of tin nanostructures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 5822-5832.	5.6	54
698	Performance of low series-resistance interconnections on the polycrystalline solar cells. Solar Energy Materials and Solar Cells, 2011, 95, 39-44.	6.2	24
699	Effect of the composition of Sn-Pb alloys on the microstructure of filaments and the electrochemical migration characteristics. Metals and Materials International, 2011, 17, 617-621.	3.4	11
700	Effects of Co Alloying and Size on Solidification and Interfacial Reactions in Sn-57Âwt.%Bi-(Co)/Cu Couples. Journal of Electronic Materials, 2011, 40, 62-70.	2.2	27
701	Interfacial Reactions of Sn-3.5Ag-xZn Solders and Cu Substrate During Liquid-State Aging. Journal of Electronic Materials, 2011, 40, 306-314.	2.2	1
702	Correlation Between Sn Grain Orientation and Corrosion in Sn-Ag-Cu Solder Interconnects. Journal of Electronic Materials, 2011, 40, 1895-1902.	2.2	20

#	Article	IF	CITATIONS
703	Effect of Gold on the Corrosion Behavior of an Electroless Nickel/Immersion Gold Surface Finish. Journal of Electronic Materials, 2011, 40, 1937-1942.	2.2	12
704	Comparative Study of ENIG and ENEPIG as Surface Finishes for a Sn-Ag-Cu Solder Joint. Journal of Electronic Materials, 2011, 40, 1950-1955.	2.2	82
705	Impact of 5% NaCl Salt Spray Pretreatment on the Long-Term Reliability of Wafer-Level Packages with Sn-Pb and Sn-Ag-Cu Solder Interconnects. Journal of Electronic Materials, 2011, 40, 2111-2118.	2.2	28
706	On the Mutual Effect of Viscoplasticity and Interfacial Damage Progression in Interfacial Fracture of Lead-Free Solder Joints. Journal of Electronic Materials, 2011, 40, 2081-2092.	2.2	9
707	Influences of Substrate Alloying and Reflow Temperature on Bi Segregation Behaviors at Sn-Bi/Cu Interface. Journal of Electronic Materials, 2011, 40, 2320-2328.	2.2	24
708	Localized Recrystallization Induced by Subgrain Rotation in Sn-3.0Ag-0.5Cu Ball Grid Array Solder Interconnects During Thermal Cycling. Journal of Electronic Materials, 2011, 40, 2470-2479.	2.2	23
709	Reactive wetting, evolution of interfacial and bulk IMCs and their effect on mechanical properties of eutectic Sn–Cu solder alloy. Advances in Colloid and Interface Science, 2011, 166, 87-118.	14.7	75
710	Effects of solidification kinetics on microstructure formation in binary Sn–Cu solder alloys. Acta Materialia, 2011, 59, 1651-1658.	7.9	66
711	Grain boundary effects on the mechanical properties of bismuth nanostructures. Acta Materialia, 2011, 59, 4709-4718.	7.9	30
712	Wetting process and interfacial characteristic of Sn–3.0Ag–0.5Cu on different substrates at temperatures ranging from 503K to 673K. Applied Surface Science, 2011, 257, 4877-4884.	6.1	35
713	Effect of alloying elements on the creep behavior of high Pb-based solders. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 1063-1070.	5.6	15
714	Plastic deformation of indium nanostructures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 6112-6120.	5.6	25
715	Surface tension and density of liquid Sn–Ag alloys. Applied Surface Science, 2011, 257, 3265-3268.	6.1	27
716	High-temperature lead-free solder alternatives. Microelectronic Engineering, 2011, 88, 981-989.	2.4	167
717	Experimental determination of interfacial energy for solid Sn in the Sn–Ag alloy by using radial heat flow type solidification apparatus. Surface Science, 2011, 605, 623-631.	1.9	9
718	Surface tension and density of liquid Bi–Pb, Bi–Sn and Bi–Pb–Sn eutectic alloys. Surface Science, 2011, 605, 1034-1042.	1.9	65
719	Shear strength of Cu/In–48Sn/Cu diffusion soldered interconnections. Science and Technology of Welding and Joining, 2011, 16, 541-545.	3.1	5
720	Effect of Ti on wettability and interface reaction of Sn0.7Cu lead-free solder. , 2011, , .		0

Article	IF	CITATIONS
Low cycle creep-fatigue behaviors of Sn-4Ag/Cu solder joints. , 2011, , .		0
Study on soldering flux used for Sn-0.7Cu welding wire. , 2011, , .		0
Fracture behaviors and strength of Cu6Sn5 intermetallic compounds by indentation testing. Journal of Applied Physics, 2011, 110, .	2.5	20
Comparison of Wettability for Sn-Based Solders on Copper and Aluminum Substrates. Materials Science Forum, 0, 687, 15-20.	0.3	0
Electrochemical Migration and Rapid Whisker Growth of Zn and Bi Dopings in Sn-3.0Ag-0.5Cu Solder in 3wt.% NaCl Solution. Advanced Materials Research, 0, 239-242, 1751-1760.	0.3	4
Understanding the effects of addition of copper nanoparticles to Snâ€3.5 Ag solder. Soldering and Surface Mount Technology, 2011, 23, 68-74.	1.5	23
Investigations of fluxless flip-chip bonding using vacuum ultraviolet and formic acid vapor surface treatment. , 2011, , .		4
Bismuth-Antimony as an Alternative for High Temperature Lead Free Solder. Advanced Materials Research, 0, 476-478, 1163-1168.	0.3	4
The Effects of Electromigration to the Solder Joint Formation: A Comparison Between 99.3Sn-0.7Cu and 96.5Sn-3.0Ag-0.5Cu Lead Free Solder. Advanced Materials Research, 0, 622-623, 195-199.	0.3	2
Intermetallic Compound Formation on Solder Alloy/Cu-Substrate Interface Using Lead-Free Sn-0.7Cu/Recycled-Aluminum Composite Solder. Advanced Materials Research, 0, 620, 105-111.	0.3	18
The bulk alloy microstructure and tensile properties of Snâ€1Agâ€0.5Cuâ€xAl leadâ€free solder alloys (x=0, 1,) T	j ETQq0 0	0 rgBT /Over
Real Time Synchrotron X-Ray Imaging for Nucleation and Growth of Cu ₆ Sn ₅ in Sn-7Cu-0.05Ni High Temperature Lead-Free Solder Alloys. Advanced Materials Research, 2012, 626, 200-204.	0.3	6
Research Advances of Composite Solder Material Fabricated via Powder Metallurgy Route. Advanced Materials Research, 2012, 626, 791-796.	0.3	6
Low homologous temperature (<0.2) sputtering of indium films on silicon. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2012, 30, 060602.	1.2	5
The study on the rapidly-solidified Sn-0.7Cu lead-free solders and the interface reactions with Cu substrate. , 2012, , .		0
Phase equilibria of the Sn-Bi-Cu ternary system in advanced microelectronic packaging. , 2012, , .		0
Influences of reflow time and strain rate on interfacial fracture behaviors of Sn-4Ag/Cu solder joints. Journal of Applied Physics, 2012, 112, 064508.	2.5	4
Effect of Ag addition on the intermetallic compound and joint strength between Sn-Zn-Bi lead free solder and copper substrate. , 2012, , .		0

#

#	Article	IF	CITATIONS
739	Massive spalling of Cu-Zn and Cu-Al intermetallic compounds at the interface between solders and Cu substrate during liquid state reaction. Journal of Applied Physics, 2012, 111, .	2.5	16
740	Study on the electrodeposition of Fe-Ni UBM films in modified watts bath. , 2012, , .		0
741	Effect of adding porous Cu on the microstructure and mechanical properties of Pb-free solder joint. , 2012, , .		1
742	Intermetallic evolution between Sn-3.5Ag-1.0Cu-xZn lead free solder and copper substrate under long time thermal aging (x: 0, 0.1, 0.4, 0.7). , 2012, , .		0
743	Effect of In, Bi, Zn Binary-Metal Dopings in Sn-0.7Cu Solder on its Electrochemical Corrosion Charateristics in 3 wt.% NaCl Solution. Advanced Materials Research, 2012, 548, 286-292.	0.3	0
744	Study on rapid thermal cycling by inducted heating for microstructure of single SnAgCu solder joint. Science and Technology of Welding and Joining, 2012, 17, 237-243.	3.1	23
745	The Influence of Soldering Conditions on Conductivity, Structure and Strength of Cu/Sn96Ag4 Solders. Archives of Metallurgy and Materials, 2012, 57, 33-37.	0.6	2
746	Surface finish effect on reliability of SAC 305 soldered chip resistors. Soldering and Surface Mount Technology, 2012, 24, 240-248.	1.5	39
747	Wettability of Sn–Zn, Sn–Ag–Cu and Sn–Bi–Cu Alloys on Copper Substrates. Materials Transactions, 2012, 53, 926-931.	1.2	11
748	Effect of multiple reflow on IMC formation using various surface finishes. International Journal of Microstructure and Materials Properties, 2012, 7, 502.	0.1	2
749	Electrochemical corrosion of Sn–0.75Cu solder joints in NaCl solution. Transactions of Nonferrous Metals Society of China, 2012, 22, 977-982.	4.2	37
750	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
751	Modifying the mechanical properties of lead-free solder by adding iron and indium and using a lap joint test. Journal of Materials Science: Materials in Electronics, 2012, 23, 1739-1749.	2.2	10
752	The bulk alloy microstructure and mechanical properties of Sn–1Ag–0.5Cu–xAl solders (xÂ=Â0, 0.1 and) Tj	ETQq11(2.2	0.784314
753	Effect of trace Al on growth rates of intermetallic compound layers between Sn-based solders and Cu substrate. Journal of Alloys and Compounds, 2012, 545, 70-79.	5.5	53
754	Laser-assisted deposition of Cu bumps for microelectronic packaging. Transactions of Nonferrous Metals Society of China, 2012, 22, s683-s687.	4.2	2
755	Thermomigration in solder joints. Materials Science and Engineering Reports, 2012, 73, 85-100.	31.8	125
756	Effects of Ni/Ag coating on the wettability of Sn-3Ag-0.5Cu alloy on Cu substrates at different temperatures. , 2012, , .		0

#	Article	IF	CITATIONS
757	Whisker growth from Sn solder alloys. , 2012, , .		3
758	Whisker Prevention Using Hard Metal Cap Layers. , 2012, , .		0
759	Sintering of Ag <inf>80</inf> -Al <inf>20</inf> nanoalloy for high temperature die attach applications on silicon carbide-based power devices: The effects of ramp rate and dwell time. , 2012, , .		1
760	Joint properties of micro Sn-58Bi solder bumps on flexible substrate. , 2012, , .		0
761	Effects of Mn nanoparticles on wettability and intermetallic compounds in between Sn-3.8Ag-0.7Cu and Cu substrate during multiple reflow. , 2012, , .		2
762	Development of low temperature Chip-on-Flex (COF) bonding process of 100°C. , 2012, , .		0
763	Effects of cooling rate on microstructure and microhardness of lead-free Sn-3.0Ag-0.5Cu solder. , 2012, , .		2
764	The Influence of Surface Oxides on Whiskering. , 2012, , .		0
765	Influence of soldering temperature and dwelling time on morphological evolution of Cu <inf>6</inf> Sn <inf>5</inf> intermetallic compound at the Sn-3.0Ag-0.5Cu/Cu interface. , 2012, , .		0
766	A compliant lead-free solder alloy. , 2012, , .		0
767	Effect of PVP on the low temperature bonding process using polyol prepared Ag nanoparticle paste for electronic packaging application. Journal of Physics: Conference Series, 2012, 379, 012024.	0.4	12
768	Variations of thermal conductivity with temperature and composition of Zn in the Bi–[x]at.% Zn–2at.% Al alloys. Thermochimica Acta, 2012, 547, 1-5.	2.7	9
769	Surface properties and wetting characteristics of liquid Ag–Bi–Sn alloys. Monatshefte Für Chemie, 2012, 143, 1249-1254.	1.8	8
770	Effects of the melt state on the microstructure of a Sn–3.5%Ag solder at different cooling rates. Applied Surface Science, 2012, 258, 5677-5682.	6.1	27
771	Improved reliability of copper-cored solder joints under a harsh thermal cycling condition. Microelectronics Reliability, 2012, 52, 1441-1444.	1.7	15
772	Microstructure, mechanical, and thermal properties of the Sn–1Ag–0.5Cu solder alloy bearing Fe for electronics applications. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 551, 160-168.	5.6	62
773	Effect of iron and indium on IMC formation and mechanical properties of lead-free solder. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 553, 22-31.	5.6	47
774	Intermetallic compound growth suppression at high temperature in SAC solders with Zn addition on Cu and Ni–P substrates. Journal of Alloys and Compounds, 2012, 511, 176-188.	5.5	106

#	Article	IF	CITATIONS
775	In-situ study on growth behavior of Ag3Sn in Sn–3.5Ag/Cu soldering reaction by synchrotron radiation real-time imaging technology. Journal of Alloys and Compounds, 2012, 537, 286-290.	5.5	58
776	Roles of phosphorous in Sn4Ag0.5Cu solder reaction with electrolytic Ni–Au. Journal of Alloys and Compounds, 2012, 539, 57-62.	5.5	9
777	Experimental and numerical study of the size effect on microstructure and mechanical behavior of Cu/Sn0.7Cu0.05Ni/Cu joints with very small solder volume. , 2012, , .		1
778	Interfacial characteristics and microstructural evolution of Sn–6.5Zn solder/Cu substrate joints during aging. Transactions of Nonferrous Metals Society of China, 2012, 22, 1954-1960.	4.2	7
779	Spreading process and interfacial characteristic of Sn–17Bi–0.5Cu/Ni at temperatures ranging from 523 K to 673 K. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 414, 57-65.	4.7	7
780	Effects of solder dimension on the interfacial shear strength and fracture behaviors of Cu/Sn–3Cu/Cu joints. Scripta Materialia, 2012, 67, 637-640.	5.2	23
781	Interfacial reactions in the Sb–Sn/(Cu, Ni) systems: Wetting experiments. Materials Chemistry and Physics, 2012, 137, 458-465.	4.0	32
782	Preparation and nonlinear optical properties of indium nanocrystals in sodium borosilicate glass by the sol–gel route. Materials Research Bulletin, 2012, 47, 3691-3696.	5.2	6
783	Novel Fe-containing Sn–1Ag–0.5Cu lead-free solder alloy with further enhanced elastic compliance and plastic energy dissipation ability for mobile products. Microelectronics Reliability, 2012, 52, 2701-2708.	1.7	41
784	Mechanical properties of Sn–0.7Cu/Si3N4 lead-free composite solder. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 556, 633-637.	5.6	76
785	High-Reliability Low-Ag-Content Sn-Ag-Cu Solder Joints for Electronics Applications. Journal of Electronic Materials, 2012, 41, 2631-2658.	2.2	84
786	Undercooling Behavior and Intermetallic Compound Coalescence in Microscale Sn-3.0Ag-0.5Cu Solder Balls and Sn-3.0Ag-0.5Cu/Cu Joints. Journal of Electronic Materials, 2012, 41, 3169-3178.	2.2	15
787	Physical and mechanical properties of Al-Si-Ni eutectic alloy. Metals and Materials International, 2012, 18, 933-938.	3.4	36
788	Effect of indium addition on the microstructural formation and soldered interfaces of Sn-2.5Bi-1Zn-0.3Ag lead-free solder. International Journal of Minerals, Metallurgy and Materials, 2012, 19, 1029-1035.	4.9	12
789	Effect of minor additions of Fe on bulk alloy microstructure and tensile properties of the low Agâ€content Snâ€1Agâ€0.5Cu solder alloy. Soldering and Surface Mount Technology, 2012, 24, 257-266.	1.5	5
790	Phase Equilibria of Sn-Co-Cu Ternary System. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 3586-3595.	2.2	16
791	Corrosion Behavior of Sn-3.0Ag-0.5Cu Lead-Free Solder in Potassium Hydroxide Electrolyte. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 3742-3747.	2.2	33
793	Wettability and Interfacial Characteristic of Sn-Ag-Cu Solder on Ni Substrates at Elevated Temperatures. Advanced Materials Research, 0, 554-556, 703-708.	0.3	0

#	Article	IF	CITATIONS
794	The role of a ternary Niâ€&nâ€P layer as a diffusion barrier in the Snâ€Ag solder/electroless Niâ€P system. Surface and Interface Analysis, 2012, 44, 1503-1506.	1.8	1
795	Electrochemical corrosion behaviour of Sn–Ag–Cu (SAC) eutectic alloy in a chloride containing environment. Materials and Corrosion - Werkstoffe Und Korrosion, 2012, 63, 492-496.	1.5	12
796	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
797	Premelting behavior and interfacial reaction of the Sn/Cu and Sn/Ag soldering systems during the reflow process. Journal of Materials Science: Materials in Electronics, 2012, 23, 1543-1551.	2.2	7
798	Improvement of Bondability by Depressing the Inhomogeneous Distribution of Nanoparticles in a Sintering Bonding Process with Silver Nanoparticles. Journal of Electronic Materials, 2012, 41, 1924-1930.	2.2	27
799	Polymer-Protected Cu-Ag Mixed NPs for Low-Temperature Bonding Application. Journal of Electronic Materials, 2012, 41, 1886-1892.	2.2	40
800	Influence of 0.03Âwt.% Carbon Black Addition on the Performance of Sn-3.5Ag Lead-Free Solder. Journal of Electronic Materials, 2012, 41, 1893-1897.	2.2	6
801	Reactive Wetting Processes and Triple-Line Configuration of Sn-3.5Ag on Cu Substrates at Elevated Temperatures. Journal of Electronic Materials, 2012, 41, 2051-2056.	2.2	4
802	Microstructure and Tensile Properties of Sn-1Ag-0.5Cu Solder Alloy Bearing Al for Electronics Applications. Journal of Electronic Materials, 2012, 41, 2073-2082.	2.2	24
803	Thermophysical Properties of Liquid Silver-Bismuth-Tin Alloys. Journal of Materials Engineering and Performance, 2012, 21, 585-589.	2.5	3
804	Wetting of Cu and Al by Sn-Zn and Zn-Al Eutectic Alloys. Journal of Materials Engineering and Performance, 2012, 21, 606-613.	2.5	51
805	Concurrent nucleation, formation and growth of two intermetallic compounds (Cu6Sn5 and Cu3Sn) during the early stages of lead-free soldering. Acta Materialia, 2012, 60, 923-934.	7.9	75
806	Reliability studies of Sn–9Zn/Cu and Sn–9Zn–0.06Nd/Cu joints with aging treatment. Materials & Design, 2012, 34, 768-775.	5.1	31
807	In situ tensile creep behaviors of Sn–4Ag/Cu solder joints revealed by electron backscatter diffraction. Scripta Materialia, 2012, 67, 289-292.	5.2	16
808	Thermal and electrical conductivities of silver–indium–tin alloys. Journal of Physics and Chemistry of Solids, 2012, 73, 902-910.	4.0	10
809	Inhomogeneous deformation and microstructure evolution of Sn–Ag-based solder interconnects during thermal cycling and shear testing. Microelectronics Reliability, 2012, 52, 1112-1120.	1.7	61
810	Interfacial reaction and elemental redistribution in Sn3.0Ag0.5Cu–xPd/immersion Au/electroless Ni solder joints after aging. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2012, 177, 278-282.	3.5	26
811	The critical oxide thickness for Pb-free reflow soldering on Cu substrate. Thin Solid Films, 2012, 520, 5346-5352.	1.8	26

#	Article	IF	CITATIONS
812	Thermodynamic properties of liquid Au–Bi–Sn alloys. Journal of Chemical Thermodynamics, 2012, 48, 201-206.	2.0	6
813	Phase Equilibria of the Sn-Bi-Te Ternary System. Journal of Electronic Materials, 2012, 41, 22-31.	2.2	7
814	Suppressing the growth of interfacial Cu–Sn intermetallic compounds in the Sn–3.0Ag–0.5Cu–0.1Ni/Cu–15Zn solder joint during thermal aging. Journal of Materials Science, 2012, 47, 4012-4018.	3.7	26
815	Interfacial reactions between Sn–57Bi–1Ag solder and electroless Ni-P/immersion Au under solid-state aging. Journal of Materials Science, 2012, 47, 4036-4041.	3.7	22
816	Nanoparticles of Sn3.0Ag0.5Cu alloy synthesized at room temperature with large melting temperature depression. Journal of Materials Science: Materials in Electronics, 2012, 23, 2-7.	2.2	22
817	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
818	Thermo-compression bonding of electrodes between FPCB and RPCB by using Pb-free solders. Journal of Materials Science: Materials in Electronics, 2012, 23, 41-47.	2.2	5
819	Suppression of Cu3Sn and Kirkendall voids at Cu/Sn-3.5Ag solder joints by adding a small amount of Ge. Journal of Materials Science: Materials in Electronics, 2012, 23, 56-60.	2.2	22
820	The effects of temperature gradient and growth rate on the microstructure of directionally solidified Sn–3.5Ag eutectic solder. Journal of Materials Science: Materials in Electronics, 2012, 23, 484-492.	2.2	15
821	Effect of TiO2 nanoparticles on the microstructure and bonding strengths of Sn0.7Cu composite solder BGA packages with immersion Sn surface finish. Journal of Materials Science: Materials in Electronics, 2012, 23, 681-687.	2.2	35
822	The morphology and kinetic evolution of intermetallic compounds at Sn–Ag–Cu solder/Cu and Sn–Ag–Cu-0.5Al2O3 composite solder/Cu interface during soldering reaction. Journal of Materials Science: Materials in Electronics, 2012, 23, 100-107.	2.2	34
823	Effects of microstructure and temperature on corrosion behavior of Sn–3.0Ag–0.5Cu lead-free solder. Journal of Materials Science: Materials in Electronics, 2012, 23, 148-155.	2.2	35
824	Prediction of steady-state creep strain rate and rupture life for SnAg-based Lead-free solder joints by SP test. International Journal of Precision Engineering and Manufacturing, 2013, 14, 1245-1250.	2.2	6
825	Indentation creep of lead-free Sn–3.5Ag solder alloy: Effects of cooling rate and Zn/Sb addition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 565, 236-242.	5.6	17
826	Effects of phosphorus addition on the properties of Sn-9Zn lead-free solder alloy. International Journal of Minerals, Metallurgy and Materials, 2013, 20, 563-567.	4.9	14
827	Characters of multicomponent lead-free solders. Journal of Materials Science: Materials in Electronics, 2013, 24, 3925-3931.	2.2	7
828	Development of a lead-free composite solder from Sn–Ag–Cu and Ag-coated carbon nanotubes. Journal of Materials Science: Materials in Electronics, 2013, 24, 3707-3715.	2.2	29
829	Effect of cerium addition on wetting, undercooling, and mechanical properties of Sn-3.9Ag-0.7Cu Pb-free solder alloys. Journal of Materials Science: Materials in Electronics, 2013, 24, 3456-3466.	2.2	10

#	Article	IF	CITATIONS
830	Review on microstructure evolution in Sn–Ag–Cu solders and its effect on mechanical integrity of solder joints. Journal of Materials Science: Materials in Electronics, 2013, 24, 3149-3169.	2.2	58
831	A novel silver–aluminium high-temperature die attach nanopaste system: the effects of organic additives content on post-sintered attributes. Journal of Materials Science: Materials in Electronics, 2013, 24, 2678-2688.	2.2	11
832	Wetting behavior and elastic properties of low alpha SAC105 and pure Sn solder. Journal of Materials Science: Materials in Electronics, 2013, 24, 1748-1757.	2.2	9
833	Correlation of intermetallic compound growth behavior and melt state of Sn–3.5Ag–3.5Bi/Cu joint during soldering and isothermal aging. Journal of Materials Science: Materials in Electronics, 2013, 24, 1231-1237.	2.2	2
834	Fabrication of Sn-Ag/CeO2 Electro-Composite Solder by Pulse Electrodeposition. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 5587-5601.	2.2	43
835	Corrosion of Ga-doped Sn-0.7Cu Solder in Simulated Marine Atmosphere. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 1462-1474.	2.2	10
836	Phase-Field Modeling and Experimental Observation of Microstructures in Solidifying Sn-Ag-Cu Solders. Journal of Electronic Materials, 2013, 42, 2658-2666.	2.2	5
837	A Study on the Physical Properties and Interfacial Reactions with Cu Substrate of Rapidly Solidified Sn-3.5Ag Lead-Free Solder. Journal of Electronic Materials, 2013, 42, 2686-2695.	2.2	17
838	Effects of PCB Substrate Surface Finish and Flux on Solderability of Lead-Free SAC305 Alloy. Journal of Materials Engineering and Performance, 2013, 22, 2247-2252.	2.5	19
839	Effect of Purging Gas on Wetting Behavior of Sn-3.5Ag Lead-Free Solder on Nickel-Coated Aluminum Substrate. Journal of Materials Engineering and Performance, 2013, 22, 723-728.	2.5	7
840	Failure Analysis of Un-Wetting for the Surface Finish on the ENIG. Journal of Failure Analysis and Prevention, 2013, 13, 194-201.	0.9	5
841	Microstructure and mechanical properties of Sn–Bi, Sn–Ag and Sn–Zn lead-free solder alloys. Journal of Alloys and Compounds, 2013, 572, 97-106.	5.5	164
842	Fast scanning calorimetric measurements and microstructure observation of rapid solidified Sn3.5Ag solder droplets. Thermochimica Acta, 2013, 565, 194-201.	2.7	12
843	Wettability of Molten Sn-Zn-Bi Solder on Cu Substrate Ervina Efzan. Applied Mechanics and Materials, 2013, 315, 675-680.	0.2	7
844	Interfacial reaction between n- and p-type thermoelectric materials and SAC305 solders. Journal of Alloys and Compounds, 2013, 576, 424-431.	5.5	31
845	Development of lead free pulse electrodeposited tin based composite solder coating reinforced with ex situ cerium oxide nanoparticles. Journal of Alloys and Compounds, 2013, 574, 609-616.	5.5	32
846	Electrodeposition of tin-rich Cu–Sn alloys from a methanesulfonic acid electrolyte. Electrochimica Acta, 2013, 90, 498-506.	5.2	59
847	Study of Tin Electroplating Process Using Electrochemical Impedance and Noise Techniques. Journal of the Electrochemical Society, 2013, 160, D530-D537.	2.9	34

#	Article	IF	CITATIONS
848	Effects of 0.1 wt% Ni addition and rapid solidification process on Sn–9Zn solder. Journal of Materials Science: Materials in Electronics, 2013, 24, 4868-4872.	2.2	7
849	Development of high strength Sn-Mg solder alloys with reasonable ductility. Electronic Materials Letters, 2013, 9, 575-585.	2.2	15
850	Undercooling and solidification behavior of Sn-Ag-Cu solder balls and Sn-Ag-Cu/UBM joints. , 2013, , .		2
851	The study of cooling process' effect on the growth of IMC at Sn-3.5Ag/Cu soldering interface. , 2013, , .		3
852	Simulation of 63Sn-37Pb BGA packaging particle formation based on pulsated orifice ejection method (POEM). , 2013, , .		0
853	Improving the impact reliability of the Ni-doped solder joint by applying Cu-Zn under bump metallization. , 2013, , .		0
854	Accelerated life tests of lead free solder alloys in presence of distilled water. , 2013, , .		0
855	Influences of intermetallic compounds morphologies on fracture behaviors of Sn-3Ag-0.5Cu/Cu solder joint. , 2013, , .		1
856	The influence of Pd on growth behavior of a quaternary (Cu,Ni,Pd)6Sn5 compound in Sn–3.0Ag–0.5Cu/Au/Pd/Ni–P solder joint during a liquid state reaction. Journal of Materials Science, 2013, 48, 857-865.	3.7	24
857	Influences of ZrO2 nano-particles on the microstructures and microhardness of Sn8Zn1Bi–xZrO2/Cu solder joints. Journal of Materials Science: Materials in Electronics, 2013, 24, 203-210.	2.2	8
858	Physical and electrical attributes of sintered Ag80–Al20 high temperature die attach material with different organic additives content. Journal of Materials Science: Materials in Electronics, 2013, 24, 720-733.	2.2	13
859	Influence of rapid solidification on microstructure, thermodynamic characteristic and the mechanical properties of solder/Cu joints of Sn–9Zn alloy. Materials & Design, 2013, 52, 92-97.	5.1	20
860	Joint reliability evaluation of thermo-compression bonded FPCB/RPCB joints under high temperature storage test. Microelectronics Reliability, 2013, 53, 2036-2042.	1.7	7
861	Thermodynamic assessments of the Au–Th and As–U systems. Journal of Nuclear Materials, 2013, 440, 214-219.	2.7	3
862	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
863	Roles of Cu in Pb-free solders jointed with electroless Ni(P) plating. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 574, 60-67.	5.6	26
864	Growth kinetics of the intermetallic phase in diffusion-soldered (Cu–5Âat.%Ni)/Sn/(Cu–5Âat.%Ni) interconnections. Materials Chemistry and Physics, 2013, 142, 682-685.	4.0	18
865	Microstructure evolution of Ni5Zn21 intermetallic compound at Sn–9Âwt%Zn/Ni interface. Materials Chemistry and Physics, 2013, 138, 937-943.	4.0	10

#	Article	IF	CITATIONS
866	Characterization of low speed shear test reliability of Sn–1.0Ag–XCe/ENEPIG solder joint. Journal of Alloys and Compounds, 2013, 560, 54-61.	5.5	13
867	Interfacial reaction between Sn–Ag–Cu solder and Co–P films with various microstructures. Acta Materialia, 2013, 61, 4581-4590.	7.9	57
868	Thermal fatigue behaviors of Sn–4Ag/Cu solder joints at low strain amplitude. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 580, 374-384.	5.6	21
869	Interfacial reactions in Sn–20In–2.8Ag/Cu couples. Materials Chemistry and Physics, 2013, 142, 268-275.	4.0	10
870	Effect of grain orientation on mechanical properties and thermomechanical response of Sn-based solder interconnects. Materials Characterization, 2013, 85, 64-72.	4.4	27
871	Computational Investigation of the Evolution of Intermetallic Compounds Affected by Microvoids During the Solid-State Aging Process in the Cu-Sn System. Journal of Electronic Materials, 2013, 42, 999-1009.	2.2	5
872	Effects of Ag particles content on properties of Sn0.7Cu solder. Journal of Materials Science: Materials in Electronics, 2013, 24, 1405-1409.	2.2	23
873	Effect of graphene nanosheets reinforcement on the performance of Snî—,Agî—,Cu lead-free solder. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 562, 25-32.	5.6	130
874	Mechanical properties of FeCo magnetic particles-based Sn-Ag-Cu solder composites. Applied Physics Letters, 2013, 102, .	3.3	8
875	Mechanical and electronic properties of Ag3Sn intermetallic compound in lead free solders using ab initio atomistic calculation. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2013, 178, 10-21.	3.5	29
876	Abnormal Diffusion Behavior of Zn in Cu/Sn-9 wt.%Zn/Cu Interconnects During Liquid–Solid Electromigration. Journal of Electronic Materials, 2013, 42, 2975-2982.	2.2	17
877	Low-Pressure Joining of Large-Area Devices on Copper Using Nanosilver Paste. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2013, 3, 915-922.	2.5	28
878	A review: influence of nano particles reinforced on solder alloy. Soldering and Surface Mount Technology, 2013, 25, 229-241.	1.5	40
879	Comparative thermodynamic analysis and phase diagram prediction of the Ga – Sn – Zn system. International Journal of Materials Research, 2013, 104, 26-34.	0.3	14
880	Temperature-dependent failure mechanism of SnAg solder joints with Cu metallization after current stressing: Experimentation and analysis. Journal of Applied Physics, 2013, 114, .	2.5	4
881	Thermal Properties of Sn-0.7Cu/re-Al Composite Lead-Free Solder. Advanced Materials Research, 2013, 795, 451-454.	0.3	0
882	Compaction Optimization of Sn-Cu-Si ₃ N ₄ via Powder Metallurgy Route for Composite Solder Fabrication. Applied Mechanics and Materials, 2013, 421, 267-271.	0.2	0
883	Research and Application of Heat Transfer Fluids in Solar Thermal Power. Advanced Materials Research, 2013, 815, 415-422.	0.3	5

#	Article	IF	CITATIONS
884	Effects of In/Ce to Sn-3.5Ag Lead-Free Solder on Microstructures and Properties. Materials Science Forum, 2013, 749, 198-204.	0.3	1
885	Interfacial reactions between SAC405 and SACNG lead-free solders with Au/Ni(P)/Cu substrate reflowed using the CO ₂ laser and hot-air methods. International Journal of Materials Research, 2013, 104, 637-642.	0.3	3
886	Wetting Behavior and Interfacial Characteristic of the Sn-3.5Ag Alloy on Ni Substrates. Advanced Materials Research, 2013, 834-836, 335-339.	0.3	0
887	Corrosion Behaviour of Lead-Free and Sn-Pb Solders in 3.5wt% NaCl. Advanced Materials Research, 0, 686, 250-260.	0.3	4
888	The Effects of Small Additions Ga and Al on the Microstructure and Tensile Properties of Sn-Zn Based Lead-Free Solders. Advanced Materials Research, 2013, 800, 265-270.	0.3	1
889	Non-Metal Reinforced Lead-Free Composite Solder Fabrication Methods and its Reinforcing Effects to the Suppression of Intermetallic Formation: Short Review. Applied Mechanics and Materials, 0, 421, 260-266.	0.2	27
890	Airtight metallic sealing at room temperature under small mechanical pressure. Scientific Reports, 2013, 3, 3066.	3.3	12
891	Aging-time-resolved <i>in situ</i> microstructural investigation of tin films electroplated on copper substrates, applying two-dimensional-detector X-ray diffraction. Journal of Applied Crystallography, 2013, 46, 1645-1653.	4.5	4
892	Interfacial Reaction of Sn-Ag-Cu Lead-Free Solder Alloy on Cu: A Review. Advances in Materials Science and Engineering, 2013, 2013, 1-11.	1.8	38
893	Effects of P Addition on the Oxidation and Corrosion Behavior of Sn-9Zn-1Bi Solder Alloy. Advanced Materials Research, 2013, 785-786, 63-66.	0.3	0
894	Effects of POSS-silanol addition on the whisker formation in Sn3.0Ag0.5Cu Pb-free solder. , 2013, , .		0
895	Mechanical properties of Sn-Bi bumps on flexible substrate. , 2013, , .		5
896	A multi-phase field study of the role of grain boundary diffusion in growth of Cu <inf>6</inf> Sn <inf>5</inf> intermetallic compound during early stage of soldering reaction. , 2013, , .		1
897	Formation and growth of interfacial intermetallic layers of Sn-8Zn-3Bi-0.3Cr on Cu, Ni and Ni-W substrates. , 2013, , .		0
898	Influence of rapid thermal cycling on the microstructures of single SnAgCu and SnPb solder joints. , 2013, , .		6
899	Dynamic mechanical properties and parameters of constitutive model for lead-free solder. , 2013, , .		0
900	Improvement of microstructure and mechanical properties of Sn-58Bi alloy with La <inf>2</inf> O <inf>3</inf> . , 2013, , .		3
901	Development of highly reliable flip-chip bonding technology using non-conductive adhesives (NCAs) for 20 & amp;#x03BC;m pitch application. , 2013, , .		1

#	Article	IF	CITATIONS
902	Wettability of Sn-Bi and Sn-Ag-Cu lead-free solder pastes on electroplated Co-P films. , 2013, , .		5
903	Electroless Deposition of Highly Solderable Fe-Ni Films. Journal of the Electrochemical Society, 2013, 160, D233-D239.	2.9	15
904	Interfacial reaction of a Snâ€3.0Agâ€0.5Cu thin film during solder reflow. Soldering and Surface Mount Technology, 2013, 25, 15-23.	1.5	16
905	In Situ Heating Transmission Electron Microscopy Observation of Nanoeutectic Lamellar Structure in Sn–Ag–Cu Alloy on Au Under-Bump Metallization. Microscopy and Microanalysis, 2013, 19, 49-53.	0.4	1
906	Structural disordering in Sn-Pb(Bi) eutectic melts induced by heating. Polish Journal of Chemical Technology, 2013, 15, 61-64.	0.5	8
907	Metal–Metal Bonding Process Using Cu+Ag Mixed Nanoparticles. Materials Transactions, 2013, 54, 879-883.	1.2	25
908	Electrochemical Migration of Micro-alloyed Low Ag Solders in NaCl Solution. Periodica Mathematica Hungarica, 2013, 57, 49.	0.9	23
909	Effects of Solder Temperature on Pin Through-Hole during Wave Soldering: Thermal-Fluid Structure Interaction Analysis. Scientific World Journal, The, 2014, 2014, 1-13.	2.1	6
911	Reliability of 1206 capacitor/SAC305 solder joint reflowed in protective atmosphere. , 2014, , .		0
912	Effect of gold and copper on microstructural evolution and mechanical durability of SAC305 solder joints. , 2014, , .		0
913	IMC Growth at the Interface of Sn–2.0Ag–2.5Zn Solder Joints with Cu, Ni, and Ni–W Substrates. Journal of Electronic Materials, 2014, 43, 4119-4125.	2.2	4
914	Effect of Isothermal Aging on the Long-Term Reliability of Fine-Pitch Sn–Ag–Cu and Sn–Ag Solder Interconnects With and Without Board-Side Ni Surface Finish. Journal of Electronic Materials, 2014, 43, 4126-4133.	2.2	6
915	IMC and creep behavior in Lead-free solder joints of Sn-Ag and Sn-Ag-Cu alloy system by SP method. International Journal of Automotive Technology, 2014, 15, 1137-1142.	1.4	12
916	Low melting point nanocrystalline Sn–Ag solder synthesized by a refined chemical reduction method. Science Bulletin, 2014, 59, 4147-4151.	1.7	1
917	The Effects of Gallium Additions on Microstructures and Thermal and Mechanical Properties of Sn-9Zn Solder Alloys. Advances in Materials Science and Engineering, 2014, 2014, 1-10.	1.8	9
918	Effect of sintering environment on silver-copper die-attach nanopaste. , 2014, , .		1
919	Review on the effect of alloying element and nanoparticle additions on the properties of Sn-Ag-Cu solder alloys. Soldering and Surface Mount Technology, 2014, 26, 147-161.	1.5	37
920	Effect of microwave hybrid heating on the formation of intermetallic compound of Sn-Ag-Cu solder joints. , 2014, , .		2

#	ARTICLE	IF	CITATIONS
921	The growth of Ag <inf>3</inf> Sn intermetallic compound under a temperature gradient. , 2014, , .		0
922	Constitutive behavior and Anand model of novel lead-free solder Sn-Zn-Bi-In-P. , 2014, , .		0
923	Effects of spin orbital coupling on atomic and electronic structures in Al2Cu and Al2Au crystal and liquid phases via ab initio molecular dynamics simulations. Journal of Alloys and Compounds, 2014, 613, 55-61.	5.5	7
924	The roles of dendritic spacings and Ag3Sn intermetallics on hardness of the SAC307 solder alloy. Microelectronics Reliability, 2014, 54, 2929-2934.	1.7	10
925	Influence of intermetallic compounds on tensile strength of lead-free solder. , 2014, , .		0
926	Effect of Current Density on the Nucleation and Growth of Crystal Facets during Pulse Electrodeposition of Sn–Cu Lead-Free Solder. Crystal Growth and Design, 2014, 14, 6542-6549.	3.0	18
927	The study of interficial reaction during rapidly solidified lead-free solder Sn3.5Ag0.7Cu/Cu laser soldering. , 2014, , .		4
928	Lead-free solders for solar and electric vehicles - Reflections on The Bridgestone World Solar Challenge 2013 in "Arrow1". , 2014, , .		0
929	Development of Low Cost Sn-0.7Cu Base Composite Solder for High Temperature Application. Materials Science Forum, 0, 803, 239-242.	0.3	1
930	The effects of Mn powder additions on the microstructures and tensile property of SnAgCu/Cu solder joints. Journal of Materials Science: Materials in Electronics, 2014, 25, 4779-4785.	2.2	1
931	Mechanical property of the epoxy-contained Sn–58Bi solder with OSP surface finish. Journal of Alloys and Compounds, 2014, 615, S411-S417.	5.5	47
932	A new solder matrix nano polymer composite for thermal management applications. Composites Science and Technology, 2014, 94, 54-61.	7.8	21
933	Fatigue and dwell-fatigue behavior of nano-silver sintered lap-shear joint at elevated temperature. Microelectronics Reliability, 2014, 54, 648-653.	1.7	38
934	Nickel-tin solid-liquid inter-diffusion bonding. International Journal of Precision Engineering and Manufacturing, 2014, 15, 143-147.	2.2	19
935	Effect of Pd thickness on wettability and interfacial reaction of Sn-1.0Ag-Ce solders on ENEPIG surface finish. Journal of Materials Science: Materials in Electronics, 2014, 25, 423-430.	2.2	11
936	Interfacial Reactions in Cu/Ga and Cu/Ga/Cu Couples. Journal of Electronic Materials, 2014, 43, 204-211.	2.2	62
937	Thermo-electric finite element analysis and characteristic of thermoelectric generator with intermetallic compound. Microelectronic Engineering, 2014, 120, 194-199.	2.4	6
938	Corrosion measurement of Sn–Zn lead-free solders in 6 M KOH solution. Measurement: Journal of the International Measurement Confederation, 2014, 47, 820-826.	5.0	40

#	Article	IF	CITATIONS
939	Effects of zinc on the interfacial reactions of tin–indium solder joints with copper. Journal of Materials Science, 2014, 49, 3805-3815.	3.7	7
940	The effect of reflow time on reactive wetting, evolution of interfacial IMCs and shear strength of eutectic Sn–Cu solder alloy. Journal of Materials Science: Materials in Electronics, 2014, 25, 1446-1455.	2.2	17
941	Corrosion behavior of Sn–3.0Ag–0.5Cu solder under high-temperature and high-humidity condition. Journal of Materials Science: Materials in Electronics, 2014, 25, 1228-1236.	2.2	13
942	Investigation on high temperature mechanical fatigue failure behavior of SnAgCu/Cu solder joint. Journal of Materials Science: Materials in Electronics, 2014, 25, 1429-1434.	2.2	13
943	Effect of rare earth metal Ce addition to Sn-Ag solder on interfacial reactions with Cu substrate. Metals and Materials International, 2014, 20, 515-519.	3.4	5
944	Formation and growth of interfacial intermetallic layers of Sn–8Zn–3Bi–0.3Cr on Cu, Ni and Ni–W substrates. Microelectronics Reliability, 2014, 54, 245-251.	1.7	4
945	Indentation Creep of Lead-Free Sn-5Sb Solder Alloy with 1.5Âwt% Ag and Bi Additions. Journal of Electronic Materials, 2014, 43, 717-723.	2.2	10
946	Effects of Al and Fe additions on microstructure and mechanical properties of SnAgCu eutectic lead-free solders. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 593, 79-84.	5.6	32
947	Effect of DC current on tensile creep of pure tin. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 591, 97-104.	5.6	34
948	Effects of aging on Sn–1Ag–0.5Cu solder alloys containing 0.1wt.% and 0.5wt.% Al. Journal of Alloys and Compounds, 2014, 582, 437-446.	5.5	24
949	Preparation and characterization of a high Tg cyanate ester/epoxy composite resin. , 2014, , .		1
950	Low-cycle fatigue failure behavior and life evaluation of lead-free solder joint under high temperature. Microelectronics Reliability, 2014, 54, 2922-2928.	1.7	30
951	Microstructure of Sn–1Ag–0.5Cu solder alloy bearing Fe under salt spray test. Microelectronics Reliability, 2014, 54, 2044-2047.	1.7	17
952	Effect of SiC whiskers addition on microstructure, microhardness and wettablility of Sn-Ag-Cu solder. , 2014, , .		1
953	Physical and Electrical Characteristics of Silver-Copper Nanopaste as Alternative Die-Attach. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2014, 4, 8-15.	2.5	23
954	Electrodeposition of tin coatings from ethylene glycol and propylene glycol electrolytes. Surface and Coatings Technology, 2014, 254, 388-397.	4.8	24
955	Effect of Fe Content on the Interfacial Reliability of SnAgCu/Fe–Ni Solder Joints. Journal of Materials Science and Technology, 2014, 30, 928-933.	10.7	16
956	Effect of aging treatment on microstructure and creep behaviour of Sn–Ag and Sn–Ag–Bi solder alloys. Materials Science and Technology, 2014, 30, 434-438.	1.6	15

#	Article	IF	Citations
957	Effect of aluminium additions on wettability and intermetallic compound (IMC) growth of lead free Sn (2 wt. % Ag, 5 wt. % Bi) soldered joints. Electronic Materials Letters, 2014, 10, 997-1004.	2.2	32
958	Mechanical properties of sintered Ag–Cu die-attach nanopaste for application on SiC device. Materials & Design, 2014, 64, 166-176.	5.1	33
959	Effect of various additives on morphological and structural characteristics of pulse electrodeposited tin coatings from stannous sulfate electrolyte. Applied Surface Science, 2014, 314, 516-522.	6.1	26
960	Investigation of the Growth of Intermetallic Compounds Between Cu Pillars and Solder Caps. Journal of Electronic Materials, 2014, 43, 4134-4145.	2.2	4
961	Effect of 1Âwt% ZnO nanoparticles addition on the microstructure, IMC development, and mechanical properties of high Bi content Sn–57.6Bi–0.4Ag solder on Ni metalized Cu pads. Journal of Materials Science: Materials in Electronics, 2014, 25, 2169-2176.	2.2	8
962	The effect of adding Zn into the Sn–Ag–Cu solder on the intermetallic growth rate. Journal of Materials Science: Materials in Electronics, 2014, 25, 2913-2922.	2.2	30
963	Effects of Ga addition on microstructure and properties of Sn–0.5Ag–0.7Cu solder. Journal of Materials Science: Materials in Electronics, 2014, 25, 3566-3571.	2.2	28
964	Effect of TiO2 addition concentration on the wettability and intermetallic compounds growth of Sn3.0Ag0.5Cu–xTiO2 nano-composite solders. Journal of Materials Science: Materials in Electronics, 2014, 25, 3816-3827.	2.2	24
965	Texture of electrodeposited tin layers and its influence on their corrosion behavior. Microelectronics Reliability, 2014, 54, 2578-2585.	1.7	10
966	Effects of Silver and Antimony Content in Lead-Free High-Temperature Solders of Bi-Ag and Bi-Sb on Copper Substrate. Journal of Electronic Materials, 2014, 43, 579-585.	2.2	31
967	Liquidus Projections of Sn-Co-Ni and Sn-Rich Sn-Ag-Co-Ni Systems. Journal of Electronic Materials, 2014, 43, 2487-2497.	2.2	1
968	The Effect of Cooling Rate on Grain Orientation and Misorientation Microstructure of SAC105 Solder Joints Before and After Impact Drop Tests. Journal of Electronic Materials, 2014, 43, 2521-2529.	2.2	33
969	Computed-Tomography-Based Analysis of Voids in SnBi57Ag1 Solder Joints and Their Influence on the Reliability. Journal of Failure Analysis and Prevention, 2014, 14, 272-281.	0.9	19
970	Experimental Investigation and Thermodynamic Calculation of the Phase Equilibria in the Bi-Cu-Zn Ternary System. Journal of Phase Equilibria and Diffusion, 2014, 35, 530-543.	1.4	3
971	Development of extremely ductile lead-free Sn-Al solders for futuristic electronic packaging applications. Electronic Materials Letters, 2014, 10, 515-524.	2.2	22
972	Studying Pressure Induced Whiskers Formation from Sn-Rich Surfaces. Materials Science Forum, 0, 790-791, 271-276.	0.3	2
973	Effect of Sb content on properties of Sn—Bi solders. Transactions of Nonferrous Metals Society of China, 2014, 24, 184-191.	4.2	51
974	Phase identification on the intermetallic compound formed between eutectic SnIn solder and single crystalline Cu substrate. Journal of Alloys and Compounds, 2014, 591, 351-355.	5.5	25

#	Article	IF	CITATIONS
975	Effect of Ag content and the minor alloying element Fe on the electrical resistivity of Sn–Ag–Cu solder alloy. Journal of Alloys and Compounds, 2014, 599, 114-120.	5.5	51
976	Phase stability of Ag–Sn alloy nanoparticles. Journal of Alloys and Compounds, 2014, 590, 140-146.	5.5	37
977	Variation and distribution of metals and metalloids in soil/ash mixtures from Agbogbloshie e-waste recycling site in Accra, Ghana. Science of the Total Environment, 2014, 470-471, 707-716.	8.0	55
978	A review: On the development of low melting temperature Pb-free solders. Microelectronics Reliability, 2014, 54, 1253-1273.	1.7	347
979	Effect of polarizations on Sn–Zn solders alloys in alkaline electrolyte. Journal of Alloys and Compounds, 2014, 606, 278-287.	5.5	38
980	Shear punch creep behavior of cast lead-free solders. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 599, 180-185.	5.6	11
981	Modification of Sn58Bi solder based on graphite. Materials Science and Technology, 2014, 30, 806-811.	1.6	1
982	New Sn–0.7Cu-based solder alloys with minor alloying additions of Pd, Cr and Ca. Journal of Alloys and Compounds, 2014, 608, 126-132.	5.5	37
983	Simulation analysis on surface morphology and hysteresis characteristics of molten Sn–3.0Ag–0.5Cu sitting on the inclined Ni substrate. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 441, 217-225.	4.7	12
984	Formation behaviour of reaction layer in Sn-3.0Ag-0.5Cu solder joint with addition of porous Cu interlayer. IOP Conference Series: Materials Science and Engineering, 2014, 61, 012020.	0.6	3
985	Modelling of Uniform Micron-sized Metal Particles Production Using Harmonic Mechanical Excitation. Procedia Engineering, 2014, 81, 1312-1317.	1.2	2
986	Influence of the material composition on the environmental impact ofÂsurface-mount device (SMD) transistors. Journal of Cleaner Production, 2015, 107, 722-730.	9.3	6
987	The surface energies of β-Sn — A new concept for corrosion and whisker mitigation. Microelectronics Reliability, 2015, 55, 2799-2807.	1.7	25
988	Effect of microstructure and IMC on single SnAgCu solder joint by rapid thermal cycles. , 2015, , .		1
989	Proton-assisted low-temperature sintering of Cu fine particles stabilized by a proton-initiating degradable polymer. RSC Advances, 2015, 5, 102904-102910.	3.6	12
990	Reliability study of lead-free solders under specific conditions. Journal of Materials Science: Materials in Electronics, 2015, 26, 9424-9442.	2.2	7
991	Investigation of electrochemical migration on Sn-0.7Cu-0.3Ag-0.03P-0.005Ni solder alloy in HNO3 solution. AIP Conference Proceedings, 2015, , .	0.4	6
992	Quasi in-situ study of morphological evolution of the interfacial IMC in single-sided interface Sn-0.3Ag-0.7Cu/Cu joints during multiple reflow process. , 2015, , .		0

#	Article	IF	CITATIONS
993	Electromigration in eutectic In-48Sn ball grid array (BGA) solder interconnections with Au/Ni/Cu pads. Journal of Materials Science: Materials in Electronics, 2015, 26, 8522-8533.	2.2	21
994	Investigation on fatigue behavior of single SnAgCu/SnPb solder joint by rapid thermal cycling. Soldering and Surface Mount Technology, 2015, 27, 76-83.	1.5	30
995	Mechanical Properties and Solderability of Robust Sn-0.7Cu Lead-Free Composite Solder. Applied Mechanics and Materials, 0, 754-755, 556-560.	0.2	2
996	Pulse Electroplating of Ultrafine Grained Tin Coating. , 0, , .		21
997	Low-Temperature Metal^ ^#8211;Metal Bonding Process Using Leaf-Like Aggregates Composed of CuO Nanoparticles. Journal of Chemical Engineering of Japan, 2015, 48, 1-6.	0.6	5
998	Influence of gallium addition in Sn–Ag–Cu lead-fee solder. Journal of Materials Science: Materials in Electronics, 2015, 26, 5459-5464.	2.2	13
999	Effect of silver (Ag) nanoparticle size on the microstructure and mechanical properties of Sn58Bi–Ag composite solders. Journal of Alloys and Compounds, 2015, 645, 566-576.	5.5	86
1000	Effects of soldering temperature and cooling rate on the as-soldered microstructures of intermetallic compounds in Sn-0.7Cu/Cu joint. , 2015, , .		0
1001	Reliability Assessment of Packaging Solder Joints Under Different Thermal Cycle Loading Rates. IEEE Transactions on Device and Materials Reliability, 2015, 15, 437-442.	2.0	34
1002	Impact of aluminium addition on the corrosion behaviour of Sn–1.0Ag–0.5Cu lead-free solder. RSC Advances, 2015, 5, 99058-99064.	3.6	13
1003	Growth behavior of intermetallic compounds at Sn–Ag/Cu joint interfaces revealed by 3D imaging. Journal of Alloys and Compounds, 2015, 646, 405-411.	5.5	15
1004	Microstructural discovery of Al addition on Sn–0.5Cu-based Pb-free solder design. Journal of Alloys and Compounds, 2015, 650, 106-115.	5.5	24
1005	Influence of La2O3 nanoparticle additions on microstructure, wetting, and tensile characteristics of Sn–Ag–Cu alloy. Materials and Design, 2015, 87, 370-379.	7.0	70
1006	Interfacial reaction and intermetallic compound formation of Sn–1Ag/ENIG and Sn–1Ag/ENEPIG solder joints. Journal of Alloys and Compounds, 2015, 627, 276-280.	5.5	42
1007	Electrochemical corrosion behavior of CeO 2 nanoparticle reinforced Sn–Ag based lead free nanocomposite solders in 3.5 wt.% NaCl bath. Surface and Coatings Technology, 2015, 261, 235-243.	4.8	29
1008	The role of Zn precipitates and Clâ^' anions in pitting corrosion of Sn–Zn solder alloys. Corrosion Science, 2015, 92, 263-271.	6.6	123
1009	Solid-state reactions between Sn-20.0 wt.%In-x wt.%Zn solders and Ag and Ni substrates. Materials Chemistry and Physics, 2015, 154, 60-65.	4.0	4
1010	Numerical investigations on the effects of different cooling periods in reflow-soldering process. Heat and Mass Transfer, 2015, 51, 1413-1423.	2.1	17

#	Article	IF	CITATIONS
1011	Effects of Ga addition on microstructure and properties of Sn–Ag–Cu/Cu solder joints. Journal of Alloys and Compounds, 2015, 622, 973-978.	5.5	47
1012	Transferring lead-free piezoelectric ceramics into application. Journal of the European Ceramic Society, 2015, 35, 1659-1681.	5.7	1,050
1013	Effect of intermetallic compound layer thickness on the shear strength of 1206 chip resistor solder joint. Soldering and Surface Mount Technology, 2015, 27, 52-58.	1.5	11
1014	Microstructural and mechanical properties analysis of extruded Sn–0.7Cu solder alloy. Journal of Materials Research and Technology, 2015, 4, 84-92.	5.8	19
1015	Influence of cerium addition on microstructure and properties of Sn–Cu–(Ag) solder alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 623, 83-91.	5.6	20
1016	Effect of exposure to alkaline solution on Sn–9Zn solder joints. Journal of Materials Processing Technology, 2015, 219, 164-172.	6.3	20
1017	Interfacial Reactions Between Cu-Ag Alloy Substrates and Sn. Journal of Electronic Materials, 2015, 44, 511-517.	2.2	1
1018	Creep Behaviour of SAC387 Lead Free Solder Alloy Reinforced with Single Walled Carbon Nanotubes. Transactions of the Indian Institute of Metals, 2015, 68, 311-317.	1.5	6
1019	The failure analysis and lifetime prediction for the solder joint of the magnetic head. Applied Physics A: Materials Science and Processing, 2015, 118, 691-697.	2.3	0
1020	Evaluation of cooling rate on electrochemical behavior of Sn–0.3Ag–0.9Zn solder alloy in 3.5Âwt% NaCl solution. Journal of Materials Science: Materials in Electronics, 2015, 26, 11-22.	2.2	30
1021	Nucleation and Growth of Cu-Al Intermetallics in Al-Modified Sn-Cu and Sn-Ag-Cu Lead-Free Solder Alloys. Journal of Electronic Materials, 2015, 44, 842-866.	2.2	10
1022	X-ray diffraction investigation of interaction between copper and indium using synchrotron radiation. Bulletin of the Russian Academy of Sciences: Physics, 2015, 79, 26-30.	0.6	1
1023	Synthesis, characterization and optical properties of ligand-protected indium nanoparticles. Physical Chemistry Chemical Physics, 2015, 17, 7109-7113.	2.8	15
1024	Effects of minor Bi, Ni on the wetting properties, microstructures, and shear properties of Sn–0.7Cu lead-free solder joints. Journal of Materials Science: Materials in Electronics, 2015, 26, 1572-1580.	2.2	34
1025	Limitations to elemental substitution as exemplified by the platinum-group metals. Green Chemistry, 2015, 17, 2226-2235.	9.0	29
1026	Interconnection: The Joint. , 2015, , 21-50.		3
1027	Ti addition to enhance corrosion resistance of Sn–Zn solder alloy by tailoring microstructure. Journal of Alloys and Compounds, 2015, 644, 113-118.	5.5	67
1028	Investigating the effect of isothermal aging on the morphology and shear strength of Sn-5Sb solder reinforced with carbon nanotubes. Journal of Alloys and Compounds, 2015, 649, 368-374.	5.5	43

#	Article	IF	CITATIONS
1029	Physical properties of Sn58Bi–xNi lead-free solder and its interfacial reaction with copper substrate. Materials and Design, 2015, 86, 371-378.	7.0	56
1030	Development of a microwave sintered TiO2 reinforced Sn–0.7wt%Cu–0.05wt%Ni alloy. Materials and Design, 2015, 82, 136-147.	7.0	43
1031	Thermal property, wettability and interfacial characterization of novel Sn–Zn–Bi–In alloys as low-temperature lead-free solders. Materials and Design, 2015, 84, 331-339.	7.0	42
1032	Effects of diamond nanoparticles reinforcement into lead-free Sn–3.0Ag–0.5Cu solder pastes on microstructure and mechanical properties after reflow soldering process. Materials and Design, 2015, 82, 206-215.	7.0	54
1033	Experimental Determination of Phase Equilibria in the Sn-Zn-Sb System. Journal of Phase Equilibria and Diffusion, 2015, 36, 350-356.	1.4	6
1034	Micro-ultrasonic powder moulding of Sn–Bi/Cu composite micro parts in semisolid form. Journal of Materials Processing Technology, 2015, 223, 313-318.	6.3	5
1035	Universal solders for direct bonding and packaging of optical devices. Materials Letters, 2015, 152, 232-236.	2.6	5
1036	Phase transformation of Sn-based nanowires under electron beam irradiation. Journal of Materials Chemistry C, 2015, 3, 5389-5397.	5.5	13
1037	Properties and Reliability of Solder Microbump Joints Between Si Chips and a Flexible Substrate. Journal of Electronic Materials, 2015, 44, 2458-2466.	2.2	13
1038	Sn–Ag–Cu nanosolders: Melting behavior and phase diagram prediction in the Sn-rich corner of the ternary system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2015, 49, 101-109.	1.6	29
1039	Thermodynamic Assessments of the Au-Nd and Au-Dy Systems. Journal of Phase Equilibria and Diffusion, 2015, 36, 241-247.	1.4	5
1040	Effect of Soldering Temperature on Wetting and Optical Density of Dip Coated Sn and Sn-3.5Ag Solders. Materials and Manufacturing Processes, 2015, 30, 127-132.	4.7	8
1041	Influence of ZnO nano-particles addition on thermal analysis, microstructure evolution and tensile behavior of Sn–5.0wt% Sb–0.5wt% Cu lead-free solder alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 632, 82-87.	5.6	23
1042	Apparatus for electronic component disassembly from printed circuit board assembly in e-wastes. International Journal of Mineral Processing, 2015, 144, 11-15.	2.6	50
1043	Metastable pitting and its correlation with electronic properties of passive films on Sn–xZn solder alloys. Corrosion Science, 2015, 99, 154-163.	6.6	39
1044	Ternary intermetallic compounds in Au–Sn soldering systems—structure and properties. Journal of Materials Science, 2015, 50, 7808-7820.	3.7	10
1045	Full elastic constants of Cu 6 Sn 5 intermetallic by Resonant Ultrasound Spectroscopy (RUS) and ab initio calculations. Scripta Materialia, 2015, 107, 26-29.	5.2	10
1046	Indium, chromium and nickel-modified eutectic Sn–0.7Âwt% Cu lead-free solder rapidly solidified from molten state. Journal of Materials Science: Materials in Electronics, 2015, 26, 6625-6632.	2.2	22

#	Article	IF	CITATIONS
1047	Effect of Copper and Zinc on Microstructures, Melting Points and Corrosion Resistance of Sn-Zn-Cu-Bi Soldering Alloys. Key Engineering Materials, 2015, 658, 59-63.	0.4	0
1048	Impression creep behavior of Zn–4Al–3Mg–xSn high-temperature lead-free solders. Microelectronics Reliability, 2015, 55, 2542-2548.	1.7	3
1049	Assessment of Constitutive Properties of Solder Materials Used in Surface-Mount Devices for Harsh Environment Applications. IEEE Transactions on Device and Materials Reliability, 2015, 15, 443-457.	2.0	2
1050	In situ fixture for multi-modal characterization during electromigration and thermal testing of wire-like microscale specimens. Microelectronics Reliability, 2015, 55, 2345-2353.	1.7	3
1051	Microstructure and Mechanical Properties of Tin-Bismuth Solder Reinforced by Aluminum Borate Whiskers. Journal of Electronic Materials, 2015, 44, 3872-3879.	2.2	13
1052	Nickel Nanoparticles Mediated Growth of the Intermetallic Compound between Sn-1.0Ag-Xni Solders Alloy and Cu Substrate. Materials Science Forum, 2015, 815, 103-108.	0.3	1
1053	Phase Equilibria of the Cu-Si-Sn System at 700 and 500°C. Journal of Phase Equilibria and Diffusion, 2015, 36, 493-502.	1.4	4
1054	Effects of LaNiO3 seeding layers on the crystal structure and electrical properties in 0.94(Bi0.5Na0.5)TiO3–0.06BaTiO3 thin films. Ceramics International, 2015, 41, 12980-12987.	4.8	8
1055	Effect of Ti content and Y additions on oxidation behavior of SnAgTi solder and its application on dissimilar metals soldering. Materials and Design, 2015, 88, 737-742.	7.0	14
1056	Formation and evolution of intermetallic compounds between the In-3Ag solder and Cu substrate during soldering. Journal of Materials Science: Materials in Electronics, 2015, 26, 7967-7976.	2.2	1
1057	Thermal Stress of Surface Oxide Layer on Micro Solder Bumps During Reflow. Journal of Electronic Materials, 2015, 44, 744-750.	2.2	3
1058	Evaluation of solder/substrate thermal conductance and wetting angle of Sn–0.7 wt%Cu–(0–0.1) Tj ETQq1	1.0.7843 2.6	14 rgBT /O
1059	Intermetallic Layer Growth Kinetics in Snâ€Agâ€Cu System using Diffusion Multiple and Reflow Techniques. Advanced Engineering Materials, 2015, 17, 512-522.	3.5	4
1060	Effects of Fe2NiO4 nanoparticles addition into lead free Sn–3.0Ag–0.5Cu solder pastes on microstructure and mechanical properties after reflow soldering process. Materials & Design, 2015, 67, 197-208.	5.1	51
1061	Synthesis and melting behaviour of Bi, Sn and Sn–Bi nanostructured alloy. Journal of Alloys and Compounds, 2015, 623, 7-14.	5.5	49
1062	Bonding mechanism of lead-free solder and glass plate by ultrasonic assisted soldering method. Materials & Design, 2015, 65, 907-913.	5.1	24
1063	The influence of Ni and Zn additions on microstructure and phase transformations in Sn–0.7Cu/Cu solder joints. Acta Materialia, 2015, 83, 357-371.	7.9	119
1064	In situ study on dissolution and growth mechanism of interfacial Cu6Sn5 in wetting reaction. Materials Letters, 2015, 139, 42-45.	2.6	31

#	Article	IF	CITATIONS
1065	Magnetic nanoparticle-based solder composites for electronic packaging applications. Progress in Materials Science, 2015, 67, 95-160.	32.8	61
1066	Thermal characteristic of sintered Ag–Cu nanopaste for high-temperature die-attach application. International Journal of Thermal Sciences, 2015, 87, 169-177.	4.9	34
1067	Pulse Electrodeposition of Lead-Free Tin-Based Composites for Microelectronic Packaging. , 0, , .		23
1068	Effects of Minute Addition of Ni on Microstructure and Mechanical Properties of Sn-Zn Eutectic Alloy. Journal of Electronic Materials, 2016, 45, 5468-5477.	2.2	11
1069	Suppression of Cu 6 Sn 5 in TiO 2 reinforced solder joints after multiple reflow cycles. Materials and Design, 2016, 108, 418-428.	7.0	57
1070	Effect of P and Ge doping on microstructure of Sn-0.3Ag-0.7Cu/Cu solder joints. , 2016, , .		1
1071	Interfacial reaction and IMC growth between the undercooled liquid lead-free solder and Cu metallization. , 2016, , .		0
1072	Ultrasonic-assisted soldering of Sn/Ni composite solder during die bonding for high-temperature application. , 2016, , .		2
1073	Single crystal copper nanocrystallization and sintered with silver nanoparticles. , 2016, , .		0
1074	Wettability study of lead free solder paste and its effect towards multiple reflow. MATEC Web of Conferences, 2016, 74, 00038.	0.2	1
1075	Enhancement on wettability and intermetallic compound formation with an addition of Al on Sn-0.7Cu lead-free solder fabricated via powder metallurgy method. AlP Conference Proceedings, 2016,	0.4	0
1076	Corrosion Study of SAC305 Solder in Acidic Solution. Materials Science Forum, 2016, 840, 336-339.	0.3	0
1077	Microstructure-property relations in as-atomized and as-extruded Sn-Cu (-Ag) solder alloys. Journal of Alloys and Compounds, 2016, 680, 259-267.	5.5	6
1078	Mechanical properties of SnBi-SnAgCu composition mixed solder joints using bending test. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 668, 224-233.	5.6	29
1079	Effects of indium on the intermetallic layer between low-Ag SAC0307-xIn lead-free solders and Cu substrate. Journal of Alloys and Compounds, 2016, 668, 169-175.	5.5	46
1080	Modelling evaluation of Garofalo-Arrhenius creep relation for lead-free solder joints in surface mount electronic component assemblies. Journal of Manufacturing Systems, 2016, 39, 9-23.	13.9	47
1081	Effect of Nd on tin whisker growth in Sn–Zn soldered joint. Journal of Materials Science: Materials in Electronics, 2016, 27, 3742-3747.	2.2	5
1082	Effects of Ag content on the interfacial reactions between liquid Sn–Ag–Cu solders and Cu substrates during soldering. Journal of Alloys and Compounds, 2016, 679, 18-25.	5.5	88

#	Article	IF	CITATIONS
1083	Formation of three-dimensional nano-trees with perpendicular branches by electrodeposition of CuSn alloy. Surface and Coatings Technology, 2016, 294, 83-89.	4.8	12
1084	Stochastic Multi-Scale Reconstruction of 3D Microstructure Consisting of Polycrystalline Grains and Second-Phase Particles from 2D Micrographs. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 1440-1450.	2.2	30
1085	Retained ratio of reinforcement in SAC305 composite solder joints: effect of reinforcement type, processing and reflow cycle. Soldering and Surface Mount Technology, 2016, 28, 159-166.	1.5	16
1086	An investigation on surface tensions of Pb-free solder materials. Philosophical Magazine, 2016, 96, 2887-2901.	1.6	15
1087	Mechanical and Physical Properties of In-Zn-Ga Lead-Free Solder Alloy for Low Energy Consumption. IOP Conference Series: Materials Science and Engineering, 2016, 133, 012048.	0.6	2
1088	The microstructure and mechanical properties of Zn-25Sn-XAl (X=0–0.09wt%) high temperature lead free solder. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 677, 384-392.	5.6	19
1089	Effect of P and Ge doping on microstructure of Sn-0.3Ag-0.7Cu/Ni-P solder joints. Soldering and Surface Mount Technology, 2016, 28, 215-221.	1.5	16
1090	Thermal aging effects on microstructures and mechanical properties of an environmentally friendly eutectic tin-copper solder alloy. Materials and Design, 2016, 110, 275-283.	7.0	50
1091	Effects of Sb addition on the properties of Sn-Ag-Cu/(Cu, Ni) solder systems. Journal of Alloys and Compounds, 2016, 689, 918-930.	5.5	52
1092	An alternative thermal approach to evaluate the wettability of solder alloys. Applied Thermal Engineering, 2016, 107, 431-440.	6.0	19
1093	Study on thermal fatigue characteristics of lead-free SAC305 solder joint by RPC. , 2016, , .		2
1094	First-Principles Study of Thermodynamical and Elastic Properties of ηâ€2-(Cu,Co)6Sn5 Ternary Alloys. Journal of Electronic Materials, 2016, 45, 4919-4927.	2.2	9
1095	Effect of Cobalt Doping on the Microstructure and Tensile Properties of Lead Free Solder Joint Subjected to Electromigration. Journal of Materials Science and Technology, 2016, 32, 1129-1136.	10.7	35
1096	Exploring Bismuth as a New Pb-Free Alternative for High Temperature Electronics. , 2016, , .		5
1097	Effects of intermetallic-forming element additions on microstructure and corrosion behavior of Sn–Zn solder alloys. Corrosion Science, 2016, 112, 150-159.	6.6	42
1098	Investigation of the diffusion behavior in Sn-xAg-yCu/Cu solid state diffusion couples. Journal of Alloys and Compounds, 2016, 686, 794-802.	5.5	9
1099	Composition dependences of thermodynamical properties associated with Pb-free ternary, quaternary, and quinary solder systems. Physics of Metals and Metallography, 2016, 117, 472-486.	1.0	2
1100	A Strategy for Material Supply Chain Sustainability: Enabling a Circular Economy in the Electronics Industry through Green Engineering. ACS Sustainable Chemistry and Engineering, 2016, 4, 5879-5888.	6.7	65

#	Article	IF	CITATIONS
1101	Effect of Corrosion on Mechanical Reliability of Sn-Ag Flip-Chip Solder Joint. Materials Transactions, 2016, 57, 1966-1971.	1.2	3
1102	Effect of Pr Addition on Properties of Sn-0.5Ag-0.7Cu-0.5Ga Lead-Free Solder. Journal of Electronic Materials, 2016, 45, 5443-5448.	2.2	5
1103	Effect of Plasma Surface Finish on Wettability and Mechanical Properties of SAC305 Solder Joints. Journal of Electronic Materials, 2016, 45, 6184-6191.	2.2	9
1104	Effect of Al addition to bulk microstructure, IMC formation, wetting and mechanical properties of low-Ag SAC solder. Journal of Materials Science: Materials in Electronics, 2016, 27, 489-502.	2.2	27
1105	Solder/substrate interfacial thermal conductance and wetting angles of Bi–Ag solder alloys. Journal of Materials Science: Materials in Electronics, 2016, 27, 1994-2003.	2.2	15
1106	Contact angle measurement of SAC 305 solder: numerical and experimental approach. Journal of Materials Science: Materials in Electronics, 2016, 27, 8941-8950.	2.2	10
1107	Synthesis and Properties of Pulse Electrodeposited Lead-Free Tin-Based Sn/ZrSiO4 Nanocomposite Coatings. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 1292-1312.	2.2	23
1108	Sn-3.0Ag-0.5Cu composite solder reinforced by multilayer graphene. , 2016, , .		0
1109	Fracture toughness of intermetallic Cu6Sn5 in lead-free solder microelectronics. Scripta Materialia, 2016, 123, 38-41.	5.2	26
1110	Size and orientation dependent mechanical behavior of body-centered tetragonal Sn at 0.6 of the melting temperature. Acta Materialia, 2016, 115, 76-82.	7.9	20
1111	Effect of temperature and alloying elements (Fe and Bi) on the electrical resistivity of Sn–0.7Cu solder alloy. RSC Advances, 2016, 6, 58010-58019.	3.6	20
1112	Effects of Rapid Solidification Process and 0.1 wt.% Pr Addition on Properties of Sn-9Zn Alloy and Cu/Solder/Cu Joints. Journal of Materials Engineering and Performance, 2016, 25, 2037-2042.	2.5	5
1113	Methods for fast, reliable growth of Sn whiskers. Surface Science, 2016, 652, 355-366.	1.9	25
1114	Effects of Ni addition on mechanical properties of Sn58Bi solder alloy during solid-state aging. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 667, 368-375.	5.6	69
1115	Solidification microstructures in Ag3Sn–Cu3Sn pseudo-binary alloys. Journal of Materials Science, 2016, 51, 6474-6487.	3.7	10
1116	Study on microstructure and properties of Sn–0.3Ag–0.7Cu solder bearing Nd. Journal of Materials Science: Materials in Electronics, 2016, 27, 8771-8777.	2.2	12
1117	Effects of Fe and Bi Minor Alloying on Mechanical, Thermal, and Microstructural Properties of Sn-0.7Cu Solder Alloy. Journal of Electronic Materials, 2016, 45, 3673-3682.	2.2	12
1118	Effects of Phosphorus Addition on the Corrosion Resistance of Sn–0.7Cu Lead-Free Solder Alloy. Transactions of the Indian Institute of Metals, 2016, 69, 1537-1543.	1.5	6

#	Article	IF	CITATIONS
1119	Understanding corrosion mechanism of Sn–Zn alloys in NaCl solution via corrosion products characterization. Materials and Corrosion - Werkstoffe Und Korrosion, 2016, 67, 522-530.	1.5	20
1120	A low-temperature solid-state bonding method based on copper bump coated with nickel microcones and silver buffer. Materials Letters, 2016, 181, 165-168.	2.6	6
1121	Bulk and surface properties of demixing liquid Al–Sn and Sn–Tl alloys. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	15
1122	Effect of adding 0.5 wt% ZnO nanoparticles, temperature and strain rate on tensile properties of Sn–5.0 wt% Sb–0.5 wt% Cu (SSC505) lead free solder alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 657, 104-114.	5.6	49
1123	Properties and Applications of Amorphous Metallic Alloys. , 2016, , 217-241.		3
1124	Effect of Graphene Nanoplatelets on Wetting, Microstructure, and Tensile Characteristics of Sn-3.0Ag-0.5Cu (SAC) Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 494-503.	2.2	54
1125	Assessment of Joint Reliability of Sn–2.5Ag–0.5Cu Solder/Cu as a Function of Reflow Time. Transactions of the Indian Institute of Metals, 2016, 69, 941-947.	1.5	2
1126	Asymmetrical Precipitation of Ag3Sn Intermetallic Compounds Induced by Thermomigration of Ag in Pb-Free Microbumps During Solid-State Aging. Journal of Electronic Materials, 2016, 45, 30-37.	2.2	21
1127	Investigation of diffusion behavior in Cu–Sn solid state diffusion couples. Journal of Alloys and Compounds, 2016, 661, 282-293.	5.5	51
1128	The measurements of electrical and thermal conductivity variations with temperature and phonon component of the thermal conductivity in Sn–Cd–Sb, Sn–In–Cu, Sn–Ag–Bi and Sn–Bi–Zn alloys. International Journal of Thermal Sciences, 2016, 100, 1-9.	4.9	19
1129	Controlling Interfacial Reactions and Intermetallic Compound Growth at the Interface of a Lead-free Solder Joint with Layer-by-Layer Transferred Graphene. ACS Applied Materials & Interfaces, 2016, 8, 5679-5686.	8.0	45
1130	The effects of Cu and Al on dry sliding wear properties of eutectic Sn-9Zn lead-free solder alloy. Journal of Adhesion Science and Technology, 2016, 30, 1662-1670.	2.6	6
1131	Effect of Corrosion in Alkaline Solution to the Microstructure and Mechanical Properties of Cu/Sn-9Zn/Cu. Procedia Chemistry, 2016, 19, 247-252.	0.7	3
1132	Solder wetting behavior enhancement via laser-textured surface microcosmic topography. Applied Surface Science, 2016, 368, 208-215.	6.1	21
1133	Corrosion resistance of ternary Sn-9Zn-xIn solder joint in alkaline solution. Journal of Alloys and Compounds, 2016, 661, 516-525.	5.5	36
1134	Influence of protective atmosphere on the solderability and reliability of OSP-based solder joints. Journal of Materials Science: Materials in Electronics, 2016, 27, 4898-4907.	2.2	5
1135	Sn–3.0Ag–0.5Cu nanocomposite solders reinforced by graphene nanosheets. Journal of Materials Science: Materials in Electronics, 2016, 27, 6809-6815.	2.2	30
1136	Rapid microstructure evolution of structural composite solder joints induced by low-density current stressing. Materials Letters, 2016, 172, 153-156.	2.6	3

#	Article	IF	CITATIONS
1137	Microstructural Evolution of Intermetallic Compounds in TCNCP Cu Pillar Solder Joints. Journal of Electronic Materials, 2016, 45, 51-56.	2.2	15
1138	Interfacial microstructure, wettability and material properties of nickel (Ni) nanoparticle doped tin–bismuth–silver (Sn–Bi–Ag) solder on copper (Cu) substrate. Journal of Materials Science: Materials in Electronics, 2016, 27, 3982-3994.	2.2	35
1139	Effect of Zn and Sb Additions on the Impression Creep Behavior of Lead-Free Sn-3.5Ag Solder Alloy. Journal of Electronic Materials, 2016, 45, 764-770.	2.2	9
1140	Electromigration mechanisms in Sn-0.7Cu/Cu couples by four dimensional (4D) X-ray microtomography and electron backscatter diffraction (EBSD). Acta Materialia, 2016, 102, 220-230.	7.9	28
1141	Modeling the effect of DC on the creep of metals in terms of the synthetic theory of irrecoverable deformation. Mechanics of Materials, 2016, 93, 163-167.	3.2	6
1142	Formation of Cu6Sn5 phase by cold homogenization in nanocrystalline Cu–Sn bilayers at room temperature. Microelectronics Reliability, 2016, 56, 85-92.	1.7	2
1143	Critical properties of Cu 6 Sn 5 in electronic devices: Recent progress and a review. Current Opinion in Solid State and Materials Science, 2016, 20, 55-76.	11.5	87
1144	The effects of Na addition on the density, surface tension and viscosity of liquid Sn–Zn alloys. Fluid Phase Equilibria, 2016, 418, 57-61.	2.5	15
1145	Growth kinetic of Ag3Sn intermetallic compound in micro-scale Pb-free solder alloys under a temperature gradient. Journal of Alloys and Compounds, 2016, 655, 155-164.	5.5	28
1146	Electric car life cycle assessment based on real-world mileage and the electric conversion scenario. International Journal of Life Cycle Assessment, 2017, 22, 15-30.	4.7	50
1147	A design of a new miniature device for solder joints' mechanical properties evaluation. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2017, 231, 3818-3830.	2.1	9
1148	High-strength and thermal stable Cu-to-Cu joint fabricated with transient molten Ga and Ni under-bump-metallurgy. Journal of Alloys and Compounds, 2017, 702, 561-567.	5.5	26
1149	Novel Silver Solid-State Bonding Designs Between Two Copper Structures. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2017, 7, 10-18.	2.5	1
1150	Effects of Ag addition on solid–state interfacial reactions between Sn–Ag–Cu solder and Cu substrate. Materials Characterization, 2017, 124, 250-259.	4.4	45
1151	Influence of rapid solidification on Sn–8Zn–3Bi alloy characteristics and microstructural evolution of solder/Cu joints during elevated temperature aging. Transactions of Nonferrous Metals Society of China, 2017, 27, 234-240.	4.2	10
1152	One-Step Fabrication of 3D Nanohierarchical Nickel Nanomace Array To Sinter with Silver NPs and the Interfacial Analysis. ACS Applied Materials & Interfaces, 2017, 9, 4798-4807.	8.0	17
1153	Evolution of microstructure and mechanical properties of Cu/SAC305/Cu solder joints under the influence of low ultrasonic power. Journal of Alloys and Compounds, 2017, 705, 188-197.	5.5	37
1154	Corrosion Properties of Sn-9Zn Solder in Acidic Solution. Materials Science Forum, 0, 888, 365-372.	0.3	7

#	Article	IF	CITATIONS
1155	In situ X-ray observation and simulation of ratcheting-fatigue interactions in solder joints. Electronic Materials Letters, 2017, 13, 97-106.	2.2	9
1156	Effect of high temperature high humidity and thermal shock test on interfacial intermetallic compounds (IMCs) growth of low alpha solders. Journal of Materials Science: Materials in Electronics, 2017, 28, 8116-8129.	2.2	13
1157	Metal–Organic–Inorganic Nanocomposite Thermal Interface Materials with Ultralow Thermal Resistances. ACS Applied Materials & Interfaces, 2017, 9, 10120-10127.	8.0	17
1158	Thermal cycling, shear and insulating characteristics of epoxy embedded Sn-3.0Ag-0.5Cu (SAC305) solder paste for automotive applications. Journal of Alloys and Compounds, 2017, 704, 795-803.	5.5	33
1159	Welding of Sn and Cu plates using controlled underwater shock wave. Journal of Materials Processing Technology, 2017, 245, 300-308.	6.3	25
1160	Early stages of localized recrystallization in Pb-free BGA solder joints subjected to thermomechanical stress. Journal of Alloys and Compounds, 2017, 704, 574-584.	5.5	38
1161	Enhancing Low-Temperature and Pressureless Sintering of Micron Silver Paste Based on an Ether-Type Solvent. Journal of Electronic Materials, 2017, 46, 5201-5208.	2.2	51
1162	Investigation of corrosion on SAC 305, SAC 0307 and SAC 0307-0.03 P-0.005 Ni solder paste alloys in simulated body fluid (SBF). AIP Conference Proceedings, 2017, , .	0.4	2
1163	Effects of graphene nanosheets addition on microstructure and mechanical properties of SnBi solder alloys during solid-state aging. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 696, 437-444.	5.6	33
1164	The effect of temperature on the formation behavior of reaction layer in Sn-3.0Ag-0.5Cu solder joint with the addition of porous Copper interlayer. Materialwissenschaft Und Werkstofftechnik, 2017, 48, 283-289.	0.9	2
1165	Corrosion behavior of Sn-3.0Ag-0.5Cu lead-free solder joints. Microelectronics Reliability, 2017, 73, 69-75.	1.7	51
1166	Theoretical prediction of thermodynamic activities of liquid Au-Sn-X (X=Bi, Sb, Zn) solder systems. Physica B: Condensed Matter, 2017, 507, 84-94.	2.7	10
1167	Lead-Free Sn-Ce-O Composite Coating on Cu Produced by Pulse Electrodeposition from an Aqueous Acidic Sulfate Electrolyte. Journal of Electronic Materials, 2017, 46, 5855-5865.	2.2	4
1168	A phase-leg IGBT module using DBC substrate without Ag finish by pressureless sintering of nanosilver paste. , 2017, , .		2
1169	Microcantilever Fracture Testing of Intermetallic Cu3Sn in Lead-Free Solder Interconnects. Journal of Electronic Materials, 2017, 46, 1607-1611.	2.2	4
1170	Na2S-influenced electrochemical migration of tin in a thin electrolyte layer containing chloride ions. RSC Advances, 2017, 7, 15060-15070.	3.6	16
1171	Direct metal writing: Controlling the rheology through microstructure. Applied Physics Letters, 2017, 110, .	3.3	40
1172	Electrothermal Evaluation of Single and Multiple Solder Void Effects on Low-Voltage Si MOSFET Behavior in Forward Bias Conditions. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2017, 7, 396-404.	2.5	11

ARTICLE IF CITATIONS Numerical simulations of migration and coalescence behavior of microvoids driven by diffusion and 1173 1.7 14 electric field in solder interconnects. Microelectronics Reliability, 2017, 71, 71-81. Percolation of a metallic binder in energy generating composites. Journal of Materials Chemistry A, 1174 10.3 2017, 5, 7200-7209. Recrystallization induced by subgrain rotation in Pb-free BGA solder joints under thermomechanical 1175 5.536 stress. Journal of Alloys and Compounds, 2017, 698, 706-713. Influence of Ce addition on Sn-3.0Ag-0.5Cu solder joints: Thermal behavior, microstructure and mechanical properties. Journal of Alloys and Compounds, 2017, 698, 317-328. Effect of thin gold/nickel coating on the microstructure, wettability and hardness of lead-free 1177 2.2 9 tin–bismuth–silver solder. Journal of Materials Science: Materials in Electronics, 2017, 28, 4885-4896. Mechanical properties and fracture mechanisms of Sn-3.0Ag-0.5Cu solder alloys and joints at cryogenic temperatures. Materials Science & amp; Engineering A: Structural Materials: Properties, 5.6 Microstructure and Processing, 2017, 684, 697-705. Influence of Indium and Antimony Additions on Mechanical Properties and Microstructure of 1179 0.3 3 Sn-3.0Ag-0.5Cu Lead Free Solder Alloys. Solid State Phenomena, 0, 266, 196-200. Highly spherical, mono-sized SnAgCu droplets by pulsated orifice ejection method. MRS 1180 1.8 Communications, 2017, 7, 709-714. Impact of thermal aging on the intermetallic compound particle size and mechanical properties of 1181 1.7 16 lead free solder for green electronics. Microelectronics Reliability, 2017, 78, 311-318. Cu and Ag additions affecting the solidification microstructure and tensile properties of Sn-Bi lead-free solder alloys. Materials Science & amp; Engineering A: Structural Materials: Properties, 5.6 Microstructure and Processing, 2017, 705, 325-334. Local order and dynamic properties of liquid Ag -Sn1â^ alloys by ab initio molecular dynamics. Journal 1183 2 3.1of Non-Crystalline Solids, 2017, 473, 179-187. Diffusivities and atomic mobilities for fcc Cu–Ni–Sn alloys. Calphad: Computer Coupling of Phase 1184 1.6 Diagrams and Thermochemistry, 2017, 59, 84-89. An overview of die-attach material for high temperature applications. AIP Conference Proceedings, 1185 0.4 1 2017,,. Effect of polyvinyl alcohol (PVA) on Ag-Cu nanopaste performance. AIP Conference Proceedings, 2017, , 1186 0.4 Effect of nickel addition on the wettability and reactivity of tin on copper substrate. Resolution and 1187 0.4 3 Discovery, 2017, 2, 9-12. Effect of Ge addition on wettability, copper dissolution, microstructural and mechanical behavior of 2.2 SnCu–Ge solder alloy. Journal of Materials Science: Materials in Electronics, 2017, 28, 16106-16119. Effects of Various Heating Rate and Sintering Temperatures on the Microstructural and Die-Shear 1189 1.2 2 Strength of Sintered Ag-Cu Nanopaste. Procedia Engineering, 2017, 184, 611-615. Discrete phase method particle simulation of ultra-fine package assembly with SAC305-TiO 2 1190 nano-reinforced lead free solder at different weighted percentages. Microelectronics Reliability, 2017, 79, 336-351.

#	Article	IF	CITATIONS
1191	Effect of indium addition on interfacial IMC growth and bending properties of eutectic Sn–0.7Cu solder joints. Journal of Materials Science: Materials in Electronics, 2017, 28, 16120-16132.	2.2	17
1192	Bi ₂ (C ₂ O ₄) ₃ ·7H ₂ O and Bi(C ₂ O ₄)OH Oxalates Thermal Decomposition Revisited. Formation of Nanoparticles with a Lower Melting Point than Bulk Bismuth. Inorganic Chemistry, 2017, 56, 9486-9496.	4.0	12
1193	Effect of Sn grain orientation and strain distribution in 20-î¼m-diameter microbumps on crack formation under thermal cycling tests. Electronic Materials Letters, 2017, 13, 457-462.	2.2	12
1194	Effects of Forming Processes on the Microstructure and Solderability of Sn-3.5Ag Eutectic Solder Ribbons as well as the Mechanical Properties of Solder Joints. Journal of Electronic Materials, 2017, 46, 6373-6380.	2.2	0
1195	Low Cycle Fatigue Test of Lead Free Solders Using Small Sized Specimen. Key Engineering Materials, 2017, 734, 194-201.	0.4	2
1196	Synthesis of SnAgCu nanoparticles with low melting point by the chemical reduction method. Microelectronics Reliability, 2017, 78, 17-24.	1.7	9
1197	Determination of stress components in 4H-SiC power devices via Raman spectroscopy. Journal of Applied Physics, 2017, 122, .	2.5	34
1198	Infrared (IR) Soldering of Metallic Nanowires. , 2017, , .		2
1199	Finite Element-Assisted Assessment of the Thermo-cyclic Characteristics of Leads Soldered with SnAgCu(+Bi,In) Alloys. Journal of Electronic Materials, 2017, 46, 4326-4343.	2.2	5
1200	Microstructural Features of Sn-3.0Ag-0.7Cu Alloy Prepared by Conventional and Microwave Sintering. Materials Science Forum, 0, 899, 412-417.	0.3	1
1201	A low-temperature solid-state bonding method using Ag-modified Cu microcones and Ag buffer. , 2017, , .		1
1202	Effects of AlN Nanoparticles on the Microstructure, Solderability, and Mechanical Properties of Sn-Ag-Cu Solder. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 4372-4384.	2.2	21
1203	Effect of Ag nanoparticles on microstructure, damping property and hardness of low melting point eutectic tin–bismuth solder. Journal of Materials Science: Materials in Electronics, 2017, 28, 15718-15730.	2.2	20
1204	Study of intermetallic compounds (IMC) that form between indium-enriched SAC solder alloys and copper substrate. Welding in the World, Le Soudage Dans Le Monde, 2017, 61, 603-611.	2.5	3
1205	Viscoplastic creep and microstructure evolution of Sn-based lead-free solders at low strain. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 701, 187-195.	5.6	9
1206	Theoretical investigation of some physicochemical properties in the liquid Sn–Ag–Cu alloys. Journal of Theoretical and Computational Chemistry, 2017, 16, 1750040.	1.8	3
1207	Creep characterization of solder bumps using nanoindentation. Mechanics of Time-Dependent Materials, 2017, 21, 287-305.	4.4	5
1208	STRUCTURAL, SURFACE AND TRANSPORT PROPERTIES OF Sn–Ag ALLOYS. Surface Review and Letters, 2017, 24, 1750033.	1.1	1

CITATION	REDORT
CHAILON	KLI OKI

#	Article	IF	CITATIONS
1209	Complex eutectic growth and Bi precipitation in ternary Sn-Bi-Cu and Sn-Bi-Ag alloys. Journal of Alloys and Compounds, 2017, 691, 600-605.	5.5	51
1210	Composition, Microstructure, Phase Constitution and Fundamental Physicochemical Properties of Low-Melting-Point Multi-Component Eutectic Alloys. Journal of Materials Science and Technology, 2017, 33, 131-154.	10.7	28
1211	In situ bridging effect of Ag2O on pressureless and low-temperature sintering of micron-scale silver paste. Journal of Alloys and Compounds, 2017, 696, 123-129.	5.5	50
1212	Influence of Nano-3%Al2O3 on the Properties of Low Temperature Sn-58Bi (SB) Lead-free Solder Alloy. IOP Conference Series: Materials Science and Engineering, 2017, 205, 012002.	0.6	3
1213	The influences of dopants on lead free solder alloy. AIP Conference Proceedings, 2017, , .	0.4	0
1214	Effects of POSS on the interfacial reactions between Sn-3.5Ag solders and Cu substrates during soldering. , 2017, , .		0
1215	Low temperature sintering of nanosilver paste for super-large-area substrate bonding. , 2017, , .		1
1216	Solvent effect on pressureless and low-temperature sintering of Ag paste for die-attachment in high-power devices. , 2017, , .		4
1217	Atomic diffusion of Zn in Sn-Zn based solder joints subjected to high temperature aging. , 2017, , .		0
1218	The influence of adding different Sn-based solder coating into Sn-58Bi/Cu interface on the growth of intermetallic compound. , 2017, , .		0
1219	Ultrasound-assisted soldering of Cu alloy using a Ni-foam reinforced Sn composite solder. , 2017, , .		3
1220	Impact of tensile strength on thermal fatigue properties and failure modes of Sn-Ag-Cu-Ni solder joints. , 2017, , .		2
1221	Microstructure and mechanical properties of resistor chip joints fabricated by laser soldering using Sn-58Bi solder on Ni(P)/Cu pads. , 2017, , .		1
1222	High reliability mid-temperature pb-free alloy for multi-step soldering. , 2017, , .		0
1223	The evaluation of mechanical properties of Sn58BiXTi solder by tensile test. , 2017, , .		1
1224	High reliability lead free solder evaluations in power module application. , 2017, , .		3
1225	Direct Printing of 1-D and 2-D Electronically Conductive Structures by Molten Lead-Free Solder. Materials, 2017, 10, 1.	2.9	607
1226	Packaging Reliability Effect of ENIG and ENEPIG Surface Finishes in Board Level Thermal Test under Long-Term Aging and Cycling. Materials, 2017, 10, 451.	2.9	20

ARTICLE IF CITATIONS Electronic Packaging: Lead Frame Materials â⁻†., 2017, , . 1227 2 Experimental Observation on Solid-State Reactive Diffusion between Sn–Ag Alloys and Ni. Materials 1228 1.2 Transactions, 2017, 58, 561-566. Acetic acid mediated leaching of metals from lead-free solders. Bioresources and Bioprocessing, 2017, 1229 4.2 5 4, . Microstructure evolution and mechanical property of Sn-37Pb and Sn-3.0Ag-0.5Cu BGA solder joints 1230 under extreme temperature environment., 2017,,. The mechanism of Al contents (0–0.09 wt%) on the wettability and interfacial intermetallic 1231 0 compounds growth of Zn-25Sn/Cu., 2017,,. Effect of interfacial intermetallic compounds morphology on mechanical properties of solder joint with finite element simulation. , 2017, , . Analysis of Ball Soldering Parameters on the Properties of a BGA Packaged Semiconductor. Materials 1233 1.3 0 Research, 2017, 20, 858-862. Effects of Complexing Reagent on Electroless Nickel Iron Alloy Plating for the Diffusion Barrier of 1234 1.2 UBM. Materials Transactions, 2017, 58, 148-151. Thermodynamic characteristics, microstructure and mechanical properties of Sn-0.7Cu-xIn lead-free 1235 5.5 26 solder alloy. Journal of Alloys and Compounds, 2018, 742, 835-843. Synthesis, characterization and thermal stability of SnAg and SnAgCu nanoparticles. Journal of Alloys 5.5 and Compounds, 2018, 747, 385-393. Effect of Gold Addition on the Microstructure and Mechanical Properties of Sn–3.8Ag–0.7Cu 1237 1.5 6 Lead-Free Solder Alloy. Transactions of the Indian Institute of Metals, 2018, 71, 1497-1505. Evaluation of hydrogen radical treatment for indium surface oxide removal and analysis of 1238 1.5 re-oxidation behavior. Japanese Journal of Applied Physics, 2018, 57, 02BC01. Effect of Al Additions on Corrosion Performance of Sn-9Zn Solder in Acidic Solution. Solid State 1239 0.3 2 Phenomena, 0, 273, 46-50. Mechanical Reliability of the Epoxy Sn-58wt.%Bi Solder Joints with Different Surface Finishes Under 1240 2.2 Thermal Shock. Journal of Electronic Materials, 2018, 47, 4165-4169. Thermodynamic optimizations of the Nd-Sn and Sn-Tb systems. Calphad: Computer Coupling of Phase 1241 1.6 5 Diagrams and Thermochemistry, 2018, 60, 214-221. Experimental investigation and thermodynamic calculation of the Co–Sn–Zn ternary system. Journal 1242 of Alloys and Compounds, 2018, 747, 815-825. Influence of dual ceramic nanomaterials on the solderability and interfacial reactions between 1243 5.5 55 lead-free Sn-Ag-Cu and a Cu conductor. Journal of Alloys and Compounds, 2018, 743, 300-313. Environment versus sustainable energy: The case of lead halide perovskite-based solar cells. MRS 1244 Energy & Sustainability, 2018, 5, 1.

		CITATION REPORT		
# 1245	ARTICLE Low-Temperature Copper Bonding Strategy with Graphene Interlayer. ACS Nano, 2018	, 12, 2395-2402.	IF 14.6	Citations
1246	Defect structures in solution-grown single crystals of the intermetallic compound Ag3 Materials Science, 2018, 53, 5317-5328.	Sn. Journal of	3.7	6
1247	Experimental analysis of Sn-3.0Ag-0.5Cu solder joint board-level drop/vibration impact after thermal/isothermal cycling. Microelectronics Reliability, 2018, 80, 29-36.	failure models	1.7	31
1248	Solderless bonding with nanoporous copper as interlayer for high-temperature applicat Microelectronics Reliability, 2018, 80, 198-204.	ions.	1.7	10
1249	Deformation behavior relationship between tensile and nanoindentation tests of SAC3 solder wire. Soldering and Surface Mount Technology, 2018, 30, 194-202.	05 lead-free	1.5	5
1250	Electrodeposition of Tin-Bismuth Alloys: Additives, Morphologies and Compositions. Jo Electrochemical Society, 2018, 165, D50-D57.	urnal of the	2.9	11
1251	Comparative study on the isothermal aging of bare Cu and ENImAg surface finish for S joints. Journal of Alloys and Compounds, 2018, 740, 958-966.	n-Ag-Cu solder	5.5	32
1252	Effect of trace Mn modification on the microstructure and corrosion behavior of Snâ [^] S alloy. Materials and Corrosion - Werkstoffe Und Korrosion, 2018, 69, 781-792.	Zn solder	1.5	8
1253	Effect of Multiple Reflow Cycles and Al2O3 Nanoparticles Reinforcement on Performar Lead-Free Solder Alloy. Journal of Materials Engineering and Performance, 2018, 27, 31	ice of SAC305 02-3111.	2.5	7
1254	Analysis of continuous recrystallization (sub)grain rotation behavior in Pb-free solder b 0.1µm/s shear rate. Journal of Materials Science: Materials in Electronics, 2018, 29, 3	umps under a 10992-10999.	2.2	3
1255	High-temperature reliability of low-temperature and pressureless micron Ag sintered jo attachment in high-power device. Journal of Materials Science: Materials in Electronics, 8854-8862.	ints for die 2018, 29,	2.2	63
1256	Ultrasonic soldering of Cu alloy using Ni-foam/Sn composite interlayer. Ultrasonics Sor 2018, 45, 223-230.	iochemistry,	8.2	29
1257	Thermal and Optical Properties of In and In ₂ O ₃ Nanoparticle Using Pulsed Plasma in Water. Physica Status Solidi (A) Applications and Materials Scie 1700910.	es Synthesized ence, 2018, 215,	1.8	1
1258	Viscosity of liquid Cu–Sn alloys. Physics and Chemistry of Liquids, 2018, 56, 1-8.		1.2	6
1259	DTT functionalization of Ag particles for conducting adhesives. Journal of Adhesion, 20	18, 94, 473-485.	3.0	3
1260	Growth behavior of intermetallic compounds and early formation of cracks in Sn-3Ag-0 joints under extreme temperature thermal shock. Materials Science & amp; Engineering Materials: Properties, Microstructure and Processing, 2018, 709, 125-133.	.5Cu solder A: Structural	5.6	83
1261	Elevated-Temperature Mechanical Properties of Lead-Free Sn-0.7Cu-xSiC Nanocomposi Journal of Electronic Materials, 2018, 47, 1721-1729.	te Solders.	2.2	13
1262	Thermophysical properties of Cu–In–Sn liquid Pb-free alloys: viscosity and surface Philosophical Magazine, 2018, 98, 37-53.	tension.	1.6	21

#	Article	IF	CITATIONS
1263	Examination of steel surfaces treated by different lasers. IOP Conference Series: Materials Science and Engineering, 0, 448, 012028.	0.6	3
1264	Property alterations of Sn-0.6Cu-0.05Ni-Ge lead-free solder by Ag, Bi, In and Sb addition. Transactions of Nonferrous Metals Society of China, 2018, 28, 1166-1175.	4.2	28
1265	Silver effect on the intermetallic growth in the Sn-8Zn-3Bi lead-free solder. Materials Today: Proceedings, 2018, 5, 17553-17560.	1.8	3
1266	Corrosion Behaviour of Sn-based Lead-Free Solders in Acidic Solution. IOP Conference Series: Materials Science and Engineering, 2018, 318, 012003.	0.6	3
1267	Electrokinetic Behavior and Stability of Solder Powders in Aqueous Media. , 2018, , .		1
1268	Hazardous metals emissions from e-waste-processing sites in a village in northern Vietnam. Emerging Contaminants, 2018, 4, 11-21.	4.9	28
1269	Influence of bismuth on the solidification of tin copper lead-free solder alloy. AIP Conference Proceedings, 2018, , .	0.4	1
1270	Effect of Additives on the Microstructure of Electroplated Tin Films. Journal of the Electrochemical Society, 2018, 165, D816-D824.	2.9	7
1271	Numerical estimation of localized transient temperature and strain fields in soldering process. , 2018, , .		2
1272	Intermetallic and tensile study of the newly developed Sn-2.0Ag-0.7Cu solder with addition of 0.5 wt.% zinc. AIP Conference Proceedings, 2018, , .	0.4	0
1273	Performance of MWCNT-Reinforced SAC0307/Cu Solder Joint Under Multiple Reflow Cycles. Transactions of the Indian Institute of Metals, 2018, 71, 2693-2698.	1.5	11
1274	Enhancement on the high-temperature joint reliability and corrosion resistance of Sn–0.3Ag–0.7Cu low-Ag solder contributed by Al2O3 Nanoparticles (0.12Âwt%). Journal of Materials Science: Materials in Electronics, 2018, 29, 19663-19677.	2.2	19
1275	Characteristics of SAC305 Lead-Free Powder Prepared by Centrifugal Atomization. Key Engineering Materials, 2018, 777, 322-326.	0.4	1
1276	Plastic deformation behavior of IMCs in solder joints during nanoindentation. , 2018, , .		1
1277	A Review of Nanoporous Metals in Interconnects. Jom, 2018, 70, 2192-2204.	1.9	27
1278	Effects of Dy substitution for Sn on the solderability and mechanical property of the standard near eutectic Sn–Ag–Cu alloy. Journal of Materials Science: Materials in Electronics, 2018, 29, 12662-12668.	2.2	7
1279	Influence of Bismuth in Sn-Based Lead-Free Solder – A Short Review. Solid State Phenomena, 0, 273, 40-45.	0.3	4
1280	Effect of Phosphorus and Nickel on Electrochemical Migration of Sn-3Ag-0.7Cu Solder Paste in Simulated Body Fluid. Solid State Phenomena, 2018, 273, 61-65.	0.3	4
#	Article	IF	CITATIONS
------	--	-----	-----------
1281	Insights into the plasticity of Ag3Sn from density functional theory. International Journal of Plasticity, 2018, 110, 57-73.	8.8	6
1282	Corrosion and Leaching Behaviours of Sn-0.7Cu-0.05Ni Lead-Free Solder in 3.5 wt.% NaCl Solution. International Journal of Corrosion, 2018, 2018, 1-11.	1.1	8
1283	Microstructure, interfacial reactions and mechanical properties of Co/Sn/Co and Cu/Sn/Cu joints produced by transient liquid phase bonding. Journal of Materials Science: Materials in Electronics, 2018, 29, 16388-16400.	2.2	12
1284	Wetting of Sn/Cu and Sn/Cu-Sn IMCs at 623–723K. Journal of Alloys and Compounds, 2018, 767, 877-882.	5.5	16
1285	Influence of SiC nanoparticles addition on the microstructure, thermal and tensile properties of Sn–Zn–Ag solder alloy. Materials Research Express, 2018, 5, 086508.	1.6	5
1286	Effects of Zinc Oxide Nanoparticles on Properties of SAC0307 Lead-Free Solder Paste. Advances in Materials Science and Engineering, 2018, 2018, 1-10.	1.8	12
1287	Growth nature of in-situ Cu 6 Sn 5 -phase and their influence on creep and damping characteristics of Sn-Cu material under high-temperature and humidity. Microelectronics Reliability, 2018, 87, 278-285.	1.7	7
1288	Interfacial Reaction and IMC Growth of an Ultrasonically Soldered Cu/SAC305/Cu Structure during Isothermal Aging. Materials, 2018, 11, 84.	2.9	15
1289	Silver nanopaste: Synthesis, reinforcements and application. International Journal of Heat and Mass Transfer, 2018, 127, 1048-1069.	4.8	22
1290	Improvement of Mechanical Properties of Zn-Added Sn58Bi Alloy by Zn Segregation on the Sn-Bi Phase Boundaries During Thermal Aging. , 2018, , .		1
1291	Surface and transport properties of liquid Ag–Sn alloys and a case study of Ag–Sn eutectic solder. Journal of Materials Science: Materials in Electronics, 2018, 29, 17108-17121.	2.2	6
1292	Experimental and theoretical analysis of the classification of Sn0.3Ag0.7Cu lead-free solders powder. Vacuum, 2018, 156, 277-282.	3.5	7
1293	Improvement in the mechanical properties of eutectic Sn58Bi alloy by 0.5 and 1†wt% Zn addition before and after thermal aging. Journal of Alloys and Compounds, 2018, 765, 1243-1252.	5.5	56
1294	Nanowire surface fastener fabrication on flexible substrate. Nanotechnology, 2018, 29, 305702.	2.6	8
1295	ZrO2 Nanoparticle Embedded Low Silver Lead Free Solder Alloy for Modern Electronic Devices. Electronic Materials Letters, 2019, 15, 27-35.	2.2	21
1296	Initiatives to reduce lead from electronic devices: evidence of success from the toxicity characteristic leaching procedure. Journal of the Air and Waste Management Association, 2019, 69, 1116-1121.	1.9	9
1297	A Study on the Shear Strength and Failure Modes of Sn-3.0Ag-0.5Cu Solder Joint Containing Pt. IOP Conference Series: Materials Science and Engineering, 2019, 495, 012085.	0.6	1
1298	The effect of pH on synthesizing Ni-decorated MWCNTs and its application for Sn-58Bi solder. Current Applied Physics, 2019, 19, 1182-1186.	2.4	9

#	Article	IF	CITATIONS
1299	Influence of Ni and Cu electrodeposits on the interfacial reaction between SAC305 solder and the Bi2(Te,Se)3 thermoelectric material. Journal of Materials Science: Materials in Electronics, 2019, 30, 14791-14804.	2.2	9
1300	Investigating the Effect of Ag Content on Mechanical Properties of Sn-Ag-Cu Micro-BGA Joints. Journal of Electronic Materials, 2019, 48, 6866-6871.	2.2	12
1301	Preparation of high-concentration colloid solutions of metallic copper particles and their use in metal–metal bonding processes. SN Applied Sciences, 2019, 1, 1.	2.9	4
1302	Temperature and humidity effects on microstructure and mechanical properties of an environmentally friendly Sn–Ag–Cu material. Journal of Materials Science, 2019, 54, 12863-12874.	3.7	7
1303	Correlation between microstructure and corrosion behaviour of SnBi-graphene oxide composite coatings. Surface and Coatings Technology, 2019, 375, 573-588.	4.8	28
1304	Effects of Cu Opening Size on the Mechanical Properties of Epoxy-Contained Sn-58Bi Solder Joints. Journal of Nanoscience and Nanotechnology, 2019, 19, 6437-6443.	0.9	0
1305	Necking growth and mechanical properties of sintered Ag particles with different shapes under air and N2 atmosphere. Journal of Materials Science, 2019, 54, 13344-13357.	3.7	30
1306	Cu-Cu low temperature bonding based on lead-free solder with graphene interlayer. Applied Physics Letters, 2019, 115, .	3.3	8
1307	Pulse co-deposition of tin-silver alloy from citric acid plating bath for microelectronic applications. Materials Research Express, 2019, 6, 1165g8.	1.6	7
1308	Development of an open-sourced automated ultrasonic-assisted soldering system. Journal of Manufacturing Processes, 2019, 47, 284-290.	5.9	6
1309	Electrochemical corrosion behavior of Sn-0.7Cu solder alloy with the addition of bismuth and iron. Journal of Alloys and Compounds, 2019, 810, 151925.	5.5	77
1310	Microstructure, Wetting, and Tensile Behaviors of Sn-Ag Alloy Reinforced with Copper-Coated Carbon Nanofibers Produced by the Melting and Casting Route. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 5384-5394.	2.2	16
1311	Wettability and interfacial morphology of Sn–3.0Ag–0.5Cu solder on electroless nickel plated ZnS transparent ceramic. Journal of Materials Science: Materials in Electronics, 2019, 30, 17972-17985.	2.2	28
1312	Development of Sn-Bi-In-Ga quaternary low-temperature solders. , 2019, , .		0
1313	Joint effects of Ti and Cu additions on microstructure and mechanical properties of Zn-25Sn-xCu-yTi high-temperature Pb-free solders. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 765, 138323.	5.6	8
1314	A Novel Preparation Method of Electrically Conductive Adhesives by Powder Spraying Process. Materials, 2019, 12, 2793.	2.9	5
1315	Influence of nano-metric Al2O3 particles addition on thermal behavior, microstructural and tensile characteristics of hypoeutectic Sn-5.0Zn-0.3Cu Pb-free solder alloy. Journal of Materials Science: Materials in Electronics, 2019, 30, 4326-4335.	2.2	11
1316	Synthesis, characterisation and formation mechanism of Sn-0.75 Cu solder nanoparticles by pulsed wire discharge. Applied Nanoscience (Switzerland), 2019, 9, 341-352.	3.1	7

#	Article	IF	CITATIONS
1317	Corrosion characterization of Sn-Zn solder: a review. Soldering and Surface Mount Technology, 2019, 31, 52-67.	1.5	21
1318	Critical Review of Size Effects on Microstructure and Mechanical Properties of Solder Joints for Electronic Packaging. Applied Sciences (Switzerland), 2019, 9, 227.	2.5	19
1319	A 64-pin Nanowire Surface Fastener Like a Ball Grid Array Applied for Room-temperature Electrical Bonding. Scientific Reports, 2019, 9, 1095.	3.3	2
1320	Effect of flux doped with Cu6Sn5 nanoparticles on the interfacial reaction of lead-free solder joints. Journal of Materials Science: Materials in Electronics, 2019, 30, 11552-11562.	2.2	6
1321	Performance of SAC305 and SAC305-0.4La lead free electronic solders at high temperature. Soldering and Surface Mount Technology, 2019, 31, 250-260.	1.5	17
1322	Effect of Different Amount of Silicon Carbide on SAC Solder-Cu Joint Performance by Using Microwave Hybrid Heating Method. IOP Conference Series: Materials Science and Engineering, 2019, 469, 012110.	0.6	4
1323	Wetting of Cu and Cu-Sn IMCs by Sn-Bi Alloys over Wide Composition at 350°C. Journal of Electronic Materials, 2019, 48, 4660-4668.	2.2	4
1324	Multiphysics Tensorial Network Analysis Applied to PCB Interconnect Fatigue Under Thermal Cycle Aggression. IEEE Transactions on Electromagnetic Compatibility, 2019, , 1-8.	2.2	8
1325	Synthesis of Ag3Sn Submicrometer Particles via an Adapted Polyol Process in View of Their Use As Die-Attach Material in Power Modules. Journal of Electronic Materials, 2019, 48, 4637-4646.	2.2	5
1326	Kinetics of Ni solid-state dissolution in Sn and Sn3.5Ag alloys. Journal of Alloys and Compounds, 2019, 797, 684-691.	5.5	18
1327	Structure and properties of Sn-Cu lead-free solders in electronics packaging. Science and Technology of Advanced Materials, 2019, 20, 421-444.	6.1	83
1328	Interfacial reaction, microstructure and mechanical properties of Sn58Bi solder joints on graphene-coated Cu substrate. Results in Physics, 2019, 13, 102256.	4.1	8
1329	Microstructure and Grain Orientation Evolution in SnPb/SnAgCu Interconnects Under Electrical Current Stressing at Cryogenic Temperature. Materials, 2019, 12, 1593.	2.9	7
1330	The reliability of lead-free solder joint subjected to special environment: a review. Journal of Materials Science: Materials in Electronics, 2019, 30, 9065-9086.	2.2	42
1331	Thermomigration in Co/SnAg/Co and Cu/SnAg/Co sandwich structure. Microelectronics Reliability, 2019, 97, 16-23.	1.7	14
1332	Improved microstructure and mechanical properties for SnBi solder alloy by addition of Cr powders. Journal of Alloys and Compounds, 2019, 789, 805-813.	5.5	56
1333	Impact of Non-Reactive Ceria Nanoparticles on the Wettability and Reaction Kinetics Between Lead-Free Sn–58Bi and Cu Pad. Metals and Materials International, 2019, 25, 1027-1038.	3.4	17
1334	Experimental Study of the Solder Paste Jet Printing Process Using High Speed Photography and Rheological Methods. Journal of Electronic Materials, 2019, 48, 2801-2810.	2.2	0

#	Article	IF	CITATIONS
1335	Effect of temperature on microstructural evolution of solder alloys under thermomigration. Journal of Applied Physics, 2019, 125, .	2.5	6
1336	Improved mechanical properties induced by In and In & Zn double additions to eutectic Sn58Bi alloy. Journal of Materials Science: Materials in Electronics, 2019, 30, 7423-7434.	2.2	16
1337	Preferred orientation of Bi and effect of Sn-Bi microstructure on mechanical and thermomechanical properties in eutectic Sn-Bi alloy. Materialia, 2019, 6, 100309.	2.7	13
1338	Properties of (Fe–B)-doped Sn–1.0Ag–0.5Cu solders prepared by mechanical alloying. Rare Metals, 2019, 38, 665-674.	7.1	4
1339	Effects of Ga Additives on the Thermal and Wetting Performance of Sn-0.7Cu Solder. Journal of Electronic Materials, 2019, 48, 3970-3978.	2.2	8
1340	Effect of fibre-lasers parameters on interfacial reaction and wetting angle of two different types of SAC305 solder fabrication on Cu pad. IOP Conference Series: Materials Science and Engineering, 2019, 469, 012117.	0.6	2
1344	Nanocalorimetry: Door opened for in situ material characterization under extreme non-equilibrium conditions. Progress in Materials Science, 2019, 104, 53-137.	32.8	44
1345	Impact of Sb additives on solidification performance, microstructure enhancement and tensile characteristics of Sn-6.5Zn-0.3Cu Pb-free solder alloy. Journal of Materials Science: Materials in Electronics, 2019, 30, 6507-6518.	2.2	8
1346	Microstructure, dynamic restoration and recrystallization texture of Sn-Cu after rolling at room temperature. Materials Characterization, 2019, 150, 174-183.	4.4	12
1347	A Computational Thermodynamics-Assisted Development of Sn-Bi-In-Ga Quaternary Alloys as Low-Temperature Pb-Free Solders. Materials, 2019, 12, 631.	2.9	13
1348	Tensile characteristics of Sn–5wt%Sb–1.5wt%Ag reinforced by nano-sized ZnO particles. Journal of Materials Science: Materials in Electronics, 2019, 30, 4831-4841.	2.2	2
1349	Atomistic analysis of the thermomechanical properties of Sn–Ag–Cu solder materials at the nanoscale with the MEAM potential. Journal of Molecular Modeling, 2019, 25, 59.	1.8	16
1350	The effects of Cu alloying on the microstructure and mechanical properties of Zn-25Sn-xCu (x = 0–1.0â€`wt%) high temperature Pb-free solders. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 750, 117-124.	5.6	13
1351	Predicting Crack Initiation of Solder Joints with Varying Sizes Under Bending. Journal of Electronic Materials, 2019, 48, 2840-2852.	2.2	5
1352	A review: microstructure and properties of tin-silver-copper lead-free solder series for the applications of electronics. Soldering and Surface Mount Technology, 2019, 32, 115-126.	1.5	16
1353	Effect of rare-element (Ga) addition on the microstructure and mechanical properties of Sn-0.7Cu and Sn-0.7Cu-0.05Ni lead-free solder alloys. IOP Conference Series: Materials Science and Engineering, 0, 701, 012031.	0.6	3
1354	Post-Corrosion Mechanical Analysis of Sn-Zn Alloys: A Short Review. IOP Conference Series: Materials Science and Engineering, 2019, 701, 012049.	0.6	4
1355	Evaluation of Non-proportional Multiaxial Fatigue Strength of Lead-free Solder with Elements Addition. MATEC Web of Conferences, 2019, 300, 12004.	0.2	0

#	Article	IF	CITATIONS
1356	Wettability and printability of SAC305-xTiO2 Pb-free solder paste on Cu substrate. IOP Conference Series: Materials Science and Engineering, 2019, 635, 012009.	0.6	4
1357	The Effect of Rare Earths Additions on the Microstructure and the Corrosion Behavior of Sn-0.7Cu-0.075Al Solder Alloy. Materials, 2019, 12, 3731.	2.9	10
1358	A novel TLP bonding based on sub-micron Ga particles. , 2019, , .		0
1359	The application of an analytical model to solve an inverse heat conduction problem: Transient solidification of a Sn-Sb peritectic solder alloy on distinct substrates. Journal of Manufacturing Processes, 2019, 48, 164-173.	5.9	11
1360	Effects of In and Zn Double Addition on Eutectic Sn-58Bi Alloy. , 2019, , .		2
1361	Investigation on viscosity, surface tension and non-reactive wettability of melting Ag-Cu-Xwt%Ti active filler metals. Journal of Alloys and Compounds, 2019, 772, 438-446.	5.5	5
1362	Effects of Cu and In Trace Elements on Microstructure and Thermal and Mechanical Properties of Sn-Zn Eutectic Alloy. Journal of Electronic Materials, 2019, 48, 2660-2669.	2.2	13
1363	Microstructures and Mechanical Properties of the Sn58wt.%Bi Composite Solders with Sn Decorated MWCNT Particles. Journal of Electronic Materials, 2019, 48, 1746-1753.	2.2	7
1364	Effects of Ti addition on the microstructure, mechanical properties and electrical resistivity of eutectic Sn58Bi alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 744, 560-569.	5.6	48
1365	Interactions, joining and microstructure of Sn-Ti/ZrO2 system. Journal of the European Ceramic Society, 2019, 39, 1525-1531.	5.7	29
1366	A critical review on performance, microstructure and corrosion resistance of Pb-free solders. Measurement: Journal of the International Measurement Confederation, 2019, 134, 897-907.	5.0	61
1367	Thermal transport engineering in single layered graphene sheets via MD simulations: On the effect of nickel coating. International Journal of Thermal Sciences, 2019, 138, 416-424.	4.9	11
1368	Enhanced microstructural, thermal and tensile characteristics of heat treated Sn-5.0Sb-0.3Cu (SSC-503) Pb-free solder alloy under high pressure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 743, 726-732.	5.6	18
1369	Silver Sintered Joint Property Between Silicon Carbide Device and Ceramic Substrate for Electric Vehicle Power Module. Journal of Electronic Materials, 2019, 48, 122-134.	2.2	18
1370	Thermal Expansion and Thermal Stress Behavior of Electroless-Plated Fe–Ni–B Alloy Thin Film for High-Density Packaging. Journal of the Electrochemical Society, 2019, 166, D3238-D3245.	2.9	8
1371	Experimental Observation of Diffusion Reaction in the (Sn-Ag)/Cu System at Solid-State Temperatures. Journal of Electronic Materials, 2019, 48, 1766-1776.	2.2	9
1372	Pb-FREE SOLDERS: ESTIMATING OF SOME PHYSICOCHEMICAL AND THERMODYNAMIC PROPERTIES OF TERNARY Cu-Ag-In SYSTEM. Surface Review and Letters, 2019, 26, 1950076.	1.1	2
1373	Wetting behavior of Sn–Ag–Cu and Sn–Bi–X alloys: insights into factors affecting cooling rate. Journal of Materials Research and Technology, 2019, 8, 1581-1586.	5.8	4

#	Article	IF	CITATIONS
1374	Review of the wettability of solder with a wetting balance test for recent advanced microelectronic packaging. Critical Reviews in Solid State and Materials Sciences, 2019, 44, 324-343.	12.3	22
1375	Effects of graphene oxide on the electromigration lifetime of lead-free solder joints. Journal of Materials Science: Materials in Electronics, 2019, 30, 2334-2341.	2.2	8
1377	Environmental considerations. , 2019, , 415-497.		0
1378	Microstructure and mechanical properties of sintered Ag particles with flake and spherical shape from nano to micro size. Materials and Design, 2019, 162, 311-321.	7.0	116
1379	The fast formation of full Cu3Sn solder joints in Cu/Sn/Cu system by thermal gradient bonding. Journal of Materials Science: Materials in Electronics, 2019, 30, 2146-2153.	2.2	6
1380	Liquid Metals in High-Temperature Cooling Systems: The Effect of Bi Additions for the Physicochemical Properties of Eutectic Ga–Sn–Zn. Journal of Chemical & Engineering Data, 2019, 64, 404-411.	1.9	9
1381	Low-Pressure Silver Sintering of Automobile Power Modules with a Silicon-Carbide Device and an Active-Metal-Brazed Substrate. Journal of Electronic Materials, 2020, 49, 188-195.	2.2	10
1382	Review of Power Electronics Components at Cryogenic Temperatures. IEEE Transactions on Power Electronics, 2020, 35, 5144-5156.	7.9	103
1383	Interplay of Wettability, Interfacial Reaction and Interfacial Thermal Conductance in Sn-0.7Cu Solder Alloy/Substrate Couples. Journal of Electronic Materials, 2020, 49, 173-187.	2.2	7
1384	Reactive wetting behavior and mechanism of AlN ceramic by CuNi-Xwt%Ti active filler metal. Ceramics International, 2020, 46, 4289-4299.	4.8	14
1385	Review of metallic phase change materials for high heat flux transient thermal management applications. Applied Energy, 2020, 258, 113955.	10.1	117
1386	Failures of electronic devices: solder joints failure modes, causes and detection methods. , 2020, , 3-17.		6
1387	Investigation on shear fracture of different strain rates for Cu/Cu3Sn/Cu solder joints derived from Cu–15μm Sn–Cu sandwich structure. Journal of Materials Science: Materials in Electronics, 2020, 31, 2862-2876.	2.2	4
1388	Three-Dimensional Composition Analysis of SnAg Solder Bumps Using Ultraviolet Femtosecond Laser Ablation Ionization Mass Spectrometry. Analytical Chemistry, 2020, 92, 1355-1362.	6.5	9
1389	In-situ observation of fluxless soldering of Sn-3.0Ag-0.5Cu/Cu under a formic acid atmosphere. Materials Chemistry and Physics, 2020, 239, 122309.	4.0	17
1390	Manufacturing processes for fabrication of flip-chip micro-bumps used in microelectronic packaging: An overview. Journal of Micromanufacturing, 2020, 3, 69-83.	1.1	21
1391	The Microstructure, Thermal, and Mechanical Properties of Sn-3.0Ag-0.5Cu-xSb High-Temperature Lead-Free Solder. Materials, 2020, 13, 4443.	2.9	14
1392	Performance and reliability of Al2O3 nanoparticles doped multicomponent Sn-3.0Ag-0.5Cu-Ni-Ge solder alloy. Microelectronics Reliability, 2020, 113, 113933.	1.7	12

#	Article	IF	CITATIONS
1393	A comprehensive study of electromigration in pure Sn: Effects on crystallinity, microstructure, and electrical property. Acta Materialia, 2020, 200, 200-210.	7.9	20
1394	Electrochemical Migration Inhibition of Tin by Disodium Hydrogen Phosphate in Water Drop Test. Metals, 2020, 10, 942.	2.3	8
1395	Microstructural and shear strength properties of RHA-reinforced Sn–0.7Cu composite solder joints on bare Cu and ENIAg surface finish. Journal of Materials Science: Materials in Electronics, 2020, 31, 8316-8328.	2.2	7
1396	Influence of graphene nanosheets addition on the microstructure, wettability, and mechanical properties of Sn-0.7Cu solder alloy. Journal of Materials Science: Materials in Electronics, 2020, 31, 14035-14046.	2.2	8
1397	Review of microstructure and properties of low temperature lead-free solder in electronic packaging. Science and Technology of Advanced Materials, 2020, 21, 689-711.	6.1	36
1398	The Preliminary Study of the Addition Zinc in Tin-Copper Lead Free Solder. Materials Science Forum, 0, 1010, 104-108.	0.3	3
1399	Shear performance of BGA structure Cu/Sn-3.0Ag-0.5Cu/Cu solder joints after deep cryogenic treatment with different time. , 2020, , .		0
1400	Investigations of high-temperature tensile properties of Zn–25Sn–x(0.1–0.2)Cu–y(0.01–0.02)Ti high-temperature Pb-free solders. Journal of Materials Science: Materials in Electronics, 2020, 31, 19318-19331.	2.2	0
1401	Structure, thermal and electrochemical behavior of lead free solder tin-zinc. AIP Conference Proceedings, 2020, , .	0.4	0
1402	High-speed formation of a near-full-density bondline in sinter-bonding below 250°C using 2â€Âµm Cu particles coated with Ag. Powder Metallurgy, 2020, 63, 367-380.	1.7	2
1403	Corrosion Investigation of Sn-0.7Cu Pb-Free Solder in Open-Circuit and Polarized Conditions. IOP Conference Series: Materials Science and Engineering, 2020, 957, 012012.	0.6	2
1404	Effects of Extreme Thermal Shock on Microstructure and Mechanical Properties of Au-12Ge/Au/Ni/Cu Solder Joint. Metals, 2020, 10, 1373.	2.3	4
1405	The Effect of Al Micro-Alloying on Corrosion and Thermal Properties of Sn-Zn Alloy. Materials Science Forum, 2020, 1010, 98-103.	0.3	1
1406	The structural, elastic, thermodynamic, and electronic properties of (Cu6-xAux)Sn5 (x = 0, 0.5, 1, 1.5, 2) intermetallic compounds. Indian Journal of Physics, 2020, , 1.	1.8	1
1407	Effect of Aging Temperature on the Microstructure and Shear Strength of SAC0307-0.1Ni Lead-Free Solders in Copper Joints. Russian Journal of Non-Ferrous Metals, 2020, 61, 89-98.	0.6	1
1408	Impact of multiple reflow on intermetallic compound of nickelâ€doped tinâ€silverâ€copper on ENImAg substrate. Materialwissenschaft Und Werkstofftechnik, 2020, 51, 780-786.	0.9	4
1409	Galvanic Replacement-Enabled Synthesis of In(OH) ₃ /Ag/C Nanocomposite as an Effective Photocatalyst for Ultraviolet C Degradation of Methylene Blue. ACS Omega, 2020, 5, 13719-13728.	3.5	4
1410	Solderability, Microstructure, and Thermal Characteristics of Sn-0.7Cu Alloy Processed by High-Energy Ball Milling. Metals, 2020, 10, 370.	2.3	2

#	Article	IF	CITATIONS
1411	Effect of Sn nanoparticle additions on thermal properties of Sn-Ag-Cu lead-free solder paste. Thermochimica Acta, 2020, 690, 178642.	2.7	14
1412	Investigation of the Thermal Properties of Electrodes on the Film and Its Heating Behavior Induced by Microwave Irradiation in Mounting Processes. Processes, 2020, 8, 557.	2.8	3
1413	Viscoplastic characterization of novel (Fe, Co, Te)/Bi containing Sn–3.0Ag–0.7Cu lead-free solder alloy. Journal of Materials Science: Materials in Electronics, 2020, 31, 5521-5532.	2.2	4
1414	Surface and transport properties of liquid Bi–Sn alloys. Journal of Materials Science: Materials in Electronics, 2020, 31, 5533-5545.	2.2	6
1415	Experimental investigation and thermodynamic description of the Cr–Sn–Zn ternary system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2020, 69, 101758.	1.6	1
1416	Determination of Chemical Composition of Compounds in Lead-Free Solder Alloy Sn-Zn-Al Using SEM/EDS. Metallography, Microstructure, and Analysis, 2020, 9, 570-575.	1.0	1
1417	Microstructural Effect Limitations in the Analysis of SnAg, SnBi and SnIn Lead-free Solders by Wavelength Dispersion X-Ray Spectrometry. Journal of Analytical Chemistry, 2020, 75, 56-62.	0.9	1
1418	Phase-field study of IMC growth in Sn–Cu/Cu solder joints including elastoplastic effects. Acta Materialia, 2020, 188, 241-258.	7.9	27
1419	Exploring the structural, mechanical, thermodynamic, and electronic properties of (Ni _{0.66} , Zn _{0.33}) ₃ Sn ₄ ternary intermetallic compounds by the first-principles study. Journal of Materials Research, 2020, 35, 263-271.	2.6	0
1420	Electrodeposition of tin-zinc-bismuth alloys from aqueous citrate-EDTA baths. Electrochimica Acta, 2020, 338, 135889.	5.2	8
1421	Microstructure and mechanical properties of the In–48Sn–xAg low-temperature alloy. Journal of Materials Science, 2020, 55, 10824-10832.	3.7	11
1422	Evaluation of creep properties for aged Pb-free solder joints/(Ni-P/Au) UBM with small addition Cu using shear punch creep testing method. Engineering Failure Analysis, 2020, 113, 104558.	4.0	7
1423	Design of a neutral elastic inhomogeneity via thermal expansion. Acta Mechanica, 2020, 231, 2867-2876.	2.1	1
1424	Effect of micromorphology on corrosion and mechanical properties of SAC305 lead-free solders. Microelectronics Reliability, 2020, 108, 113634.	1.7	21
1425	Electrochemical corrosion behaviour of Sn–Sb solder alloys: the roles of alloy Sb content and type of intermetallic compound. Corrosion Engineering Science and Technology, 2021, 56, 11-21.	1.4	6
1426	An examination of microstructural evolution in a Pb–Sn eutectic alloy processed by high-pressure torsion and subsequent self-annealing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 802, 140653.	5.6	6
1427	Interfacial Structure and Mechanical Properties of Lead-Free Bi-Containing Solder/Cu Microelectronic Interconnects. Journal of Electronic Materials, 2021, 50, 258-262.	2.2	2
1428	Electrical and Microstructural Reliability of Pressureless Silver-Sintered Joints on Silicon Carbide Power Modules Under Thermal Cycling and High-Temperature Storage. Journal of Electronic Materials, 2021, 50, 914-925.	2.2	9

# 1429	ARTICLE Determination of internal stress in soldered joints with Sn-based alloys by X-ray diffraction. Materials Today: Proceedings, 2021, 45, 4364-4366.	IF 1.8	Citations
1430	Prediction of activities of all components in Sn-Ag-Cu and Sn-Ag-Cu-Zn lead-free solders using modified molecular interaction volume model. Results in Chemistry, 2021, 3, 100143.	2.0	2
1431	Interface evolution and mechanical properties of Sn–36Pb–2Ag solder joints under different aging conditions. Journal of Materials Research and Technology, 2021, 10, 868-881.	5.8	9
1432	Study of microstructure, hardness and thermal properties of Sn-Bi alloys. Hemijska Industrija, 2021, 75, 227-239.	0.7	4
1433	Mitigating criticality, part I: Material substitution. , 2021, , 123-160.		0
1434	Nanolead-Free Solder Pastes for Low Processing Temperature Interconnect Applications in Microelectronic Packaging. , 2021, , 81-96.		0
1435	Microstructural and segregation effects affecting the corrosion behavior of a highâ€ŧemperature Biâ€Ag solder alloy in dilute chloride solution. Journal of Applied Electrochemistry, 2021, 51, 769-780.	2.9	2
1436	Electric polarization and depolarization of solder, and their effects on electrical conduction. Journal of Materials Science: Materials in Electronics, 2021, 32, 6214-6227.	2.2	5
1437	Effects of bismuth additions on mechanical property and microstructure of SAC-Bi solder joint under current stressing. Microelectronics Reliability, 2021, 117, 114041.	1.7	8
1438	Low Melting Temperature Sn-Bi Solder: Effect of Alloying and Nanoparticle Addition on the Microstructural, Thermal, Interfacial Bonding, and Mechanical Characteristics. Metals, 2021, 11, 364.	2.3	42
1439	Effect of Cu addition on the microstructure and mechanical properties of In–Sn-based low-temperature alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 804, 140785.	5.6	11
1440	Determination of bulk and surface properties of liquid Bi-Sn alloys using an improved quasi-lattice theory. ChemistrySelect, 2021, .	1.5	0
1441	Synthesis and structural characterization of orthorhombic Cu3–δ Sb (δÂâ‰^Â0.1) and hexagonal Cu3Sb1–xIr (xÂâ‰^Â0.2) phases. Zeitschrift Fur Kristallographie - Crystalline Materials, 2021, 236, 61-70.	^{1X} 0.8	1
1442	Electrochemical Preparation and Thermal Expansion Behavior of Fe-Ni Alloys in the Invar Composition Range. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2021, 72, 127-132.	0.2	1
1443	A SnBiAgIn solder alloy with exceptional mechanical properties by rapid quenching. Journal of Materials Science: Materials in Electronics, 2021, 32, 8167-8173.	2.2	6
1444	A first-principles computation-driven mechanism study on the solders dilute doping effects to Î-'-Cu6Sn5 growth kinetics. Journal of Materials Science, 2021, 56, 9741-9753.	3.7	5
1445	Multi-Objective Optimization of Mn-Doped Tio ₂ Content for Wettability, Printability and Intermetallic Layer of Sac305 Pb-Free Solder Paste on a Cu Substrate. Journal of Advanced Manufacturing Systems, 2021, 20, 771-782.	1.0	0
1446	Implementation of a Neural Network into a User-Material Subroutine for Finite Element Simulation of Material Viscoplasticity. Journal of Engineering Materials and Technology, Transactions of the ASME, 2021, 143, .	1.4	4

#	Article	IF	CITATIONS
1447	Lowâ€Temperature Sn 0 Nanoparticles Synthesis by Means of Tin(II) N,Nâ€Complexes Reduction. ChemistrySelect, 2021, 6, 3926-3931.	1.5	1
1448	Experimental Determination of the Activities of Liquid Bi-Sn Alloys. Journal of Phase Equilibria and Diffusion, 2021, 42, 278-289.	1.4	0
1449	A Review of Sintering-Bonding Technology Using Ag Nanoparticles for Electronic Packaging. Nanomaterials, 2021, 11, 927.	4.1	30
1450	On the Direct Extrusion of Solder Wire from 52In-48Sn Alloy. Machines, 2021, 9, 93.	2.2	7
1451	Development of LSTM networks for predicting viscoplasticity with effects of deformation, strain rate and temperature history. Journal of Applied Mechanics, Transactions ASME, 0, , 1-30.	2.2	15
1452	Improvements in mechanical properties of Sn–Bi alloys with addition of Zn and In. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 813, 141131.	5.6	31
1453	Effects of Yttrium Addition on the Microstructure Evolution and Electrochemical Corrosion of SN-9Zn Lead-Free Solders Alloy. Materials, 2021, 14, 2549.	2.9	2
1454	Challenges in Minimizing Copper Dissolution for Lead Free Wave Soldering in Surface Mount Technology Going Towards Green Manufacturing. International Journal of Precision Engineering and Manufacturing - Green Technology, 2022, 9, 645-660.	4.9	6
1455	Interface reaction and evolution of micron-sized Ag particles paste joining on electroless Ni-/Pd-/Au-finished DBA and DBC substrates during extreme thermal shock test. Journal of Alloys and Compounds, 2021, 862, 158596.	5.5	15
1456	Effect of Zinc on the Tensile Properties, Microstructure and characteristics in Aluminum Alloys. Egyptian Journal of Solids, 2021, .	0.7	0
1457	Low temperature Ag-Ag direct bonding under air atmosphere. Journal of Alloys and Compounds, 2021, 862, 158587.	5.5	20
1458	Characterization of femtosecond laser ablation processes on as-deposited SnAg solder alloy using laser ablation ionization mass spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2021, 180, 106145.	2.9	2
1459	The Preparation of Ag Nanopaste with Silver-Plated Diamond by Low-Temperature Pressureless Sintering. Journal of Nanoelectronics and Optoelectronics, 2021, 16, 933-940.	0.5	0
1460	Electrochemical tailoring of Pb-free Sn coatings modified with SiC nanoparticles by surfactant-assisted reverse pulse plating. Applied Surface Science, 2021, 550, 149335.	6.1	10
1461	Thermal aging impact on microstructure, creep and corrosion behavior of lead-free solder alloy (SAC387) use in electronics. Microelectronics Reliability, 2021, 122, 114180.	1.7	1
1462	Metallurgical, physical, mechanical and oxidation behavior of lead-free chromium dissolved Sn–Cu–Bi solders. Journal of Materials Research and Technology, 2021, 13, 1805-1825.	5.8	16
1463	Maximum shear stress-controlled uniaxial tensile deformation and fracture mechanisms and constitutive relations of Sn–Pb eutectic alloy at cryogenic temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 819, 141523.	5.6	19
1464	Vision-based soldering process parameters calculation for Robotic soldering. , 2021, , .		0

#	Article	IF	CITATIONS
1465	Tin whiskers prefer to grow from the [001] grains in a tin coating on aluminum substrate. Journal of Materials Science and Technology, 2021, 80, 191-202.	10.7	12
1466	Calculation of evaporation rates of all components in Ag-Pb-Sn ternary alloy in vacuum distillation using modified molecular interaction volume model. Materials Research Express, 2021, 8, 076509.	1.6	1
1467	Reprint of: Nanocalorimetry: Door opened for in situ material characterization under extreme non-equilibrium conditions. Progress in Materials Science, 2021, 120, 100819.	32.8	1
1468	Effect of Co-Addition of Ag and Cu on Mechanical Properties of Sn–5Sb Lead-Free Solder. Transactions of the Indian Institute of Metals, 2021, 74, 2991-2999.	1.5	3
1469	Effect of SrO content on microstructure of Bi2O3-B2O3-ZnO-BaO-SrO low-melting glass frit and joining performance of sodalime glass substrates. Journal of Alloys and Compounds, 2021, 872, 159707.	5.5	14
1470	Wetting characteristics of Sn-5Sb-CuNiAg lead-free solders on the copper substrate. Soldering and Surface Mount Technology, 2022, 34, 96-102.	1.5	3
1471	Terminal Sinter-Bonding Using Silver Paste for Aluminum Nitride Heater. Journal of Welding and Joining, 2021, 39, 384-391.	1.3	1
1472	Friction stir vibration brazing (FSVB): an improved version of friction stir brazing. Welding in the World, Le Soudage Dans Le Monde, 2021, 65, 2207-2220.	2.5	22
1473	Die sinter bonding in air using Cu@Ag particulate preform and rapid formation of near-full density bondline. Journal of Materials Research and Technology, 2021, 14, 1724-1738.	5.8	17
1474	Effect of temperature on the corrosion behavior of lead-free solders under polyvinyl chloride fire smoke atmosphere. Journal of Materials Research and Technology, 2021, 15, 3088-3098.	5.8	11
1475	Tuning the microstructure and enhancing the mechanical properties of Au-20Sn/Au/Ni(P)/Kovar joint by ultrasonic-assisted soldering method. Journal of Materials Research and Technology, 2021, 14, 703-718.	5.8	4
1476	Manufacturing and Characterization of Sn-0.6Al Lead-Free Composite Solder Using Accumulative Extrusion Process. Journal of Electronic Materials, 2021, 50, 6372-6385.	2.2	2
1477	Structural and thermal properties of Snâ \in 'Ag alloys. Solid State Sciences, 2021, 119, 106685.	3.2	9
1478	Failure modes and bonding strength of ultrasonically-soldered glass joints. Journal of Materials Processing Technology, 2022, 299, 117385.	6.3	3
1479	A Propertyâ€Driven Stepwise Design Strategy for Multiple Lowâ€Melting Alloys via Machine Learning. Advanced Engineering Materials, 2021, 23, 2100612.	3.5	7
1480	Anisotropic constitutive model coupled with damage for Sn-rich solder: Application to SnAgCuSb solder under tensile conditions. International Journal of Damage Mechanics, 2022, 31, 582-604.	4.2	4
1481	Numerical and experimental study on laser soldering process of SnAgCu lead-free solder. Materials Chemistry and Physics, 2021, 273, 125046.	4.0	9
1482	Effect of magnetic field on microstructure and property of Ag-Sn solder alloys. Materials Letters, 2021, 303, 130515.	2.6	2

#	Article	IF	CITATIONS
1483	Low-temperature Sn electrodeposition: Texture evolution, grain boundary constitution and corrosion behavior. Surface and Coatings Technology, 2021, 425, 127709.	4.8	8
1484	Multiple linear regression approach to predict tensile properties of Sn-Ag-Cu (SAC) alloys. Materials Letters, 2021, 304, 130587.	2.6	9
1485	Effect of aging time and loading rate on fracture behavior of Cu/Sn-0.7Cu solder joints. Microelectronics Reliability, 2021, 127, 114381.	1.7	8
1486	Synergistic size and shape effect of dendritic silver nanostructures for low-temperature sintering of paste as die attach materials. Journal of Materials Science: Materials in Electronics, 2021, 32, 323-336.	2.2	8
1489	Packaging Materials. , 2006, , 1267-1285.		2
1490	Interfacial reaction issues for lead-free electronic solders. , 2006, , 155-174.		40
1491	Phase diagrams of Pb-free solders and their related materials systems. , 2006, , 19-37.		7
1493	Interfacial Reactions and Electromigration in Flip-Chip Solder Joints. , 2013, , 503-560.		5
1494	Advanced Bonding Technology Based on Nano- and Micro-metal Pastes. , 2017, , 589-626.		9
1495	Packaging Materials. Springer Handbooks, 2017, , 1-1.	0.6	7
1496	Improved sinter-bonding properties of silver-coated copper flake paste in air by the addition of sub-micrometer silver-coated copper particles. Journal of Materials Research and Technology, 2020, 9, 16006-16017.	5.8	20
1497	Electrochemical migration of Sn and Sn solder alloys: a review. RSC Advances, 2017, 7, 28186-28206.	3.6	67
1498	Microstructure, mechanical properties, and drop reliability of CeO ₂ reinforced Sn–9Zn composite for low temperature soldering. Materials Research Express, 2019, 6, 056520.	1.6	11
1499	Microstructure and mechanical properties of Sn–58Bi eutectic alloy with Cu/P addition. Materials Research Express, 2020, 7, 116502.	1.6	3
1500	Development of Advanced Lead-Free Solder Based Interconnect Materials Containing Nanosized Y2O3 Particulates. , 2005, , .		1
1501	Alloy Selections. , 2003, , .		4
1502	Wettability of Ceramic Substrates by Silver Based Alloys. Acta Physica Polonica A, 2013, 124, 78-87.	0.5	3
1503	An Investigation of Microstructure and Mechanical Properties of Sn-9Zn-xCr Alloys Produced by Investment Casting Method. Acta Physica Polonica A, 2017, 131, 102-105.	0.5	1

#	Article	IF	CITATIONS
1504	Investigation of the Wetting Properties of Ternary Lead-Free Solder Alloys on Copper Substrate. Acta Physica Polonica A, 2017, 131, 165-167.	0.5	9
1506	Wetting Behavior of Solders. Journal of ASTM International, 2010, 7, 1-18.	0.2	9
1507	Effect of Cooling Rate on Joint Shear Strength of Sn-9Zn Lead-Free Solder Alloy Reflowed on Copper Substrate. Materials Performance and Characterization, 2017, 6, 46-54.	0.3	1
1508	Self- Agglomeration of Tin Nanoparticle Array on Porous Anodic Alumina Membranes: Fabrication and Characterization. Current Nanoscience, 2015, 11, 214-221.	1.2	7
1509	Low Temperature Bonding of Cu Metal through Sintering of Ag Nanoparticles for High Temperature Electronic Application. The Open Surface Science Journal, 2010, 3, 70-75.	2.0	48
1510	Microstructure and mechanical properties of Sn-9Zn-xAl and Sn-9Zn-xCu lead-free solder alloys. Materials Science-Poland, 2020, 38, 34-40.	1.0	2
1512	Structural, mechanical and electrical properties of alloys in ternary Ag-Bi-Zn system. Revista De Metalurgia, 2015, 51, e042.	0.5	1
1513	Interfacial Reactions Between Electrodeposited Sn-Cu, Sn-Ag-Cu Solders and Cu, Ni Substrates. Journal of Microelectronics and Electronic Packaging, 2010, 7, 48-57.	0.7	1
1514	Enhancing the Creep Resistance of Sn-9.0Zn-0.5Al Lead-Free Solder Alloy by Small Additions of Sb Element. Engineering, 2018, 10, 21-34.	0.8	4
1515	Process Optimization for Flexible Printed Circuit Board Assembly Manufacturing. Transactions on Electrical and Electronic Materials, 2012, 13, 129-135.	1.9	3
1516	Corrosion resistance of Pb-free and novel nano-composite solders in electronic packaging. , 0, , .		9
1517	Study on Wettability of Sn-Xwt%Cu Solder. Journal of Welding and Joining, 2007, 25, 78-83.	1.3	2
1518	Behavior of Vibration Fracture for Sn-Ag-Cu-X Solders by Soldering. Journal of Welding and Joining, 2012, 30, 65-69.	0.3	6
1519	The Chip Bonding Technology on Flexible Substrate by Using Micro Lead-free Solder Bump. Journal of the Microelectronics and Packaging Society, 2012, 19, 15-20.	0.1	4
1520	Trends of Researches and Technologies of Electronic Packaging Using Graphene. Journal of the Microelectronics and Packaging Society, 2016, 23, 1-10.	0.1	2
1521	Viscosities and wetting behaviors of Sn-Cu solders. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 086601.	0.5	3
1522	Robotic Micromanipulation for Active Pin Alignment in Electronic Soldering Industry. , 2021, , .		2
1523	Effects of antimony on the microstructure, thermal properties, mechanical performance, and interfacial behavior of Sn–0.7Cu–0.05Ni–xSb/Cu solder joints. Journal of Materials Science: Materials in Electronics, 2021, 32, 27607-27624.	2.2	3

#	ARTICLE	IF	CITATIONS
1524	Sn–Cu–Bi/Cu solder joint. Journal of Materials Research and Technology, 2021, 15, 3321-3336.	5.8	2
1525	Electrodeposition of ternary Sn-Cu-Ni alloys as lead-free solders using deep eutectic solvents. Electrochimica Acta, 2021, 398, 139339.	5.2	12
1526	Effect of Presence of Carbon Nanotubes on the Wettability and Mechanical Performance of Sn-Ag-Cu Solder. , 2005, , .		1
1527	Recent Advances on Conductive Adhesives in Electronic Packaging. Journal of Welding and Joining, 2007, 25, 31-36.	0.3	0
1528	Electronic Packaging Structures. , 2010, , 125-168.		0
1529	A Top-Down Approach of Making Sn-3.5Ag Nanosolder Alloy by Swirl Method. Materials Sciences and Applications, 2011, 02, 1298-1301.	0.4	0
1530	Reliability Design for Manufacturability. , 2011, , 115-122.		0
1531	Solder Bump Deposition Using a Laser Beam. Transactions of the Korean Society of Mechanical Engineers, A, 2012, 36, 37-42.	0.2	0
1532	Wetting in the Tin-Silver-Titanium/Sapphire System. Ceramic Transactions, 0, , 121-128.	0.1	0
1534	Temperature Dependent Micromechanical Testing on the Formation of Cu/Sn Intermetallic Thin Films. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 103-108.	0.5	0
1535	Soldering sheets using soft solders. Acta Universitatis Agriculturae Et Silviculturae Mendelianae Brunensis, 2013, 61, 1597-1604.	0.4	10
1536	Solder Joint Technology. , 2014, , 1-45.		0
1537	CORRELAÇÃ $ m f$ O ENTRE MICROESTRUTURA E DUREZA DA LIGA LIVRE DE CHUMBO Bi-1,5%Ag. , 0, , .		0
1538	Solder Joint Technology. , 2015, , 713-763.		0
1539	Chemical and Environmental Attack. , 2015, , 211-230.		2
1540	Dependence of Hardness on Microstructure of a Directionally Solidified Sn-40wt.%Bi-0.7wt.%Cu Alloy. , 2015, , 381-389.		0
1541	Effect of Bismuth Addition on Structure and Mechanical Properties of Tin-9Zinc Soldering Alloy. Materials Sciences and Applications, 2015, 06, 792-798.	0.4	3
1543	Tensile-Compress Fatigue Behavior of Solder Joints. Springer Theses, 2016, , 67-89.	0.1	0

	CHANON R		
#	Article	IF	CITATIONS
1544	Shear Creep-Fatigue Behavior of Cu/Pb-Free Solder Joints. Springer Theses, 2016, , 91-118.	0.1	0
1545	Microstructure and its effect on mechanical behavior of Sn-Ag-Cu/Cu single crystal solder joints. , 2015, , 2619-2622.		0
1546	Research Progress in Pb-Free Soldering. Springer Theses, 2016, , 1-33.	0.1	0
1547	LED Die Bonding. , 2017, , 733-766.		0
1548	Solid Solutions Mixed Crystals and Eutectics. , 2017, , 109-125.		0
1549	The effect of graphene on the intermetallic and joint strength of Sn-3.5Ag lead-free solder. AIP Conference Proceedings, 2017, , .	0.4	4
1550	The Effect of Increased Cu Content on Microstructure and Melting of Utilized Sn-0.3Ag-0.7Cu Solder. Research Papers Faculty of Materials Science and Technology Slovak University of Technology in Trnava, 2018, 26, 33-44.	0.4	0
1551	The Effect of Nickel Oxidation Formed in the Interface of ENEPIG Structure for Flip Chip Technology. International Symposium on Microelectronics, 2018, 2018, 000146-000152.	0.0	0
1552	Wetting Behavior and Interfacial Characteristics of High Temperature Melts Under Microgravity. Research for Development, 2019, , 361-394.	0.4	1
1553	Indentation Creep and Microstructure Properties of Sn-Ag Solder Alloys. Journal of Advances in Physics, 2019, 16, 171-184.	0.2	0
1554	Development of Elemental Technology for Arbitrary Shape IoT Sensor and Its Future Development of the Technology. Journal of Japan Institute of Electronics Packaging, 2019, 22, 476-479.	0.1	0
1555	Effect of bond-line thickness and mode-mixity on the fracture behavior and traction separation law of Sn-0.7Cu solder joints. Engineering Failure Analysis, 2022, 131, 105855.	4.0	3
1556	Recent Low Temperature Solder of SnBi and Its Bonding Characteristics. Journal of Welding and Joining, 2020, 38, 576-583.	1.3	2
1558	A review of metallic materials for latent heat thermal energy storage: Thermophysical properties, applications, and challenges. Renewable and Sustainable Energy Reviews, 2022, 154, 111812.	16.4	82
1559	The Effect of Reflow Temperature on Time at the End of Gravity Zone (Tgz) of Sn-3.8Ag-0.7Cu Solder Alloy. Materials Performance and Characterization, 2020, 9, 20190230.	0.3	1
1560	Effects of Bi content on thermal, microstructure and mechanical properties of Sn-Bi-In-Zn solder alloy systems. Journal of Materials Science: Materials in Electronics, 2022, 33, 11-26.	2.2	4
1561	Investigation of microstructure, thermal properties, and mechanical performances of Ni-added Sn-5.0Sb-0.5Cu/Cu solder joints. Microelectronics Reliability, 2021, 127, 114421.	1.7	10
1562	Embedded Microelectronic Subsystems. Microsystems, 2008, , 131-153.	0.3	0

#	Article	IF	CITATIONS
1565	Introduction to Solder Alloys and Their Properties. , 2007, , 1-27.		0
1566	Packaging Architecture and Assembly Technology. , 2007, , 29-51.		0
1567	Wetting and Joint Formation. , 2007, , 53-78.		1
1568	Effect of indentation depth and strain rate on mechanical properties of Sn0.3Ag0.7Cu. Microelectronics Reliability, 2022, 128, 114429.	1.7	4
1569	Electrodeposition current density induced texture and grain boundary engineering in Sn coatings for enhanced corrosion resistance. Corrosion Science, 2022, 194, 109945.	6.6	27
1570	Role of graphene oxide (GO) for enhancing the solidification rate and mechanical properties of Sn–6.5Zn–0.4Âwt% Cu Pb-free solder alloy. Journal of Materials Science: Materials in Electronics, 2022, 33, 522-540.	2.2	3
1571	On the Design of Sn-Bi-Ag-In and Sn-Bi-Ag-Zn Low-Temperature Pb-Free Solders Using High-Throughput CALPHAD Modeling and Key Experiments. SSRN Electronic Journal, 0, , .	0.4	1
1572	High thermal conductivity diamond-doped silver paste for power electronics packaging. Materials Letters, 2022, 311, 131603.	2.6	14
1573	Preparation and microstructure and properties of AlCuFeMnTiV lightweight high entropy alloy. Journal of Alloys and Compounds, 2022, 900, 163352.	5.5	10
1574	Effect Of 3% Molybdenum (Mo) Nanoparticles on The Melting, Microstructure and Hardness Properties of As- Reflowed Low Mass Sn-58Bi (SB) Solder Alloy. Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, 2020, 77, 69-87.	0.6	1
1575	High-Strength Sn-Bi-Based Low-Temperature Pb-Free Solders with High Toughness Designed with the Guidance of High-Throughput Thermodynamic Modeling. SSRN Electronic Journal, 0, , .	0.4	0
1576	Effect of Ni and TiO2 particle addition on the wettability and interfacial reaction of Sn20Bi lead-free solder. Journal of Materials Science: Materials in Electronics, 2022, 33, 3306-3319.	2.2	3
1577	Enhancing the properties of the SAC305-soldered joint: heat treatment of the nickel-plated copper substrate before reflow soldering. Journal of Materials Science: Materials in Electronics, 2022, 33, 3535-3545.	2.2	5
1578	The doping of SZC solders with bismuth to improve their thermal and tensile characteristics for microelectronic applications. Journal of Materials Science: Materials in Electronics, 0, , 1.	2.2	1
1579	The Effect Of Indium Addition on The Corrosion Kinetics of Sn–3Ag–0.5Cu Alloy In HCl Acid Solution. European Journal of Science and Technology, 0, , .	0.5	0
1580	Highly reliable Cu Cu low temperature bonding using SAC305 solder with rGO interlayer. Microelectronics Reliability, 2022, 129, 114483.	1.7	3
1581	Effect of Low Bi Content on Reliability of Sn-Bi Alloy Joints Before and After Thermal Aging. Jom, 2022, 74, 1751-1759.	1.9	5
1582	Dual-cluster model of Sn-based binary eutectics and solders. Materials Today Communications, 2022, 30, 103191.	1.9	3

#	Article	IF	CITATIONS
1583	Comparison of intermetallic compound growth and tensile behavior of Sn-3.0Ag-0.5Cu/Cu solder joints by conventional and microwave hybrid heating. Journal of Materials Research and Technology, 2022, 17, 1438-1449.	5.8	11
1584	Revealing the ductile-to-brittle transition mechanism in polycrystalline body-centered tetragonal tin (Sn) for cryogenic electronics. Journal of Alloys and Compounds, 2022, 903, 163948.	5.5	5
1585	The Evolution of Compounds Growth between Sn-3.5Ag and Co-P Films with Different Phosphorous Contents. SSRN Electronic Journal, 0, , .	0.4	0
1587	Effects of Alloying Elements on the Interfacial Segregation of Bismuth in Tin-Based Solders. SSRN Electronic Journal, 0, , .	0.4	0
1588	Surface Modifications on Ceramic Reinforcement for Tin-Based Composite Solders. Topics in Mining, Metallurgy and Materials Engineering, 2022, , 53-75.	1.6	1
1589	Thermophysical Properties of Fe-Si and Cu-Pb Melts and Their Effects on Solidification Related Processes. Metals, 2022, 12, 336.	2.3	2
1590	Development of lead free solder for electronic components based on thermal analysis. Materials Today: Proceedings, 2022, 62, 2163-2167.	1.8	3
1591	Joining Interface of Plating and Solder. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2021, 72, 530-536.	0.2	0
1592	Microstructure Evolution and Shear Strength of Tin-Indium-xCu/Cu Joints. Metals, 2022, 12, 33.	2.3	7
1593	Study on the floating kinetics of graphene in molten Sn-based alloy based on in-situ observation of X-ray radiography. Composites Part B: Engineering, 2022, 238, 109909.	12.0	13
1594	Electroless Preparation of Invar Fe-Ni Alloys. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2021, 72, 599-604.	0.2	0
1595	Comparison of thermodynamic data of the ternary Cu–Sn–Zn system, measured with the EMF and with the calorimetric method. International Journal of Materials Research, 2022, 97, 434-439.	0.3	1
1596	Investigation on Wetting Behavior of Cu/Sn Systems by Molecular Dynamics Simulation. SSRN Electronic Journal, 0, , .	0.4	0
1597	Reactive wetting behaviors of Sn/Cu systems: A molecular dynamics study. Nano-Micro Letters, 2010, 2,	27.0	0
1598	Mechanical properties of Sn-Bi-Ag low-temperature Pb-free solders. , 2022, , .		0
1599	Joining Photovoltaic Cell Connection Strips Using Ultra-Acoustic Wave - Resistive Hybrid Heating System. Advanced Materials Research, 0, 1172, 57-65.	0.3	0
1600	High-strength Sn–Bi-based low-temperature solders with high toughness designed via high-throughput thermodynamic modelling ¹ . Science and Technology of Welding and Joining, 2022, 27, 572-578.	3.1	4
1601	Low-temperature transient liquid phase bonding via electroplated Sn/In–Sn metallization. Journal of Materials Research and Technology, 2022, 19, 2510-2515.	5.8	6

#	Article	IF	CITATIONS
1602	Co-digestive ripening assisted phase-controlled synthesis of Ag–Sn intermetallic nanoparticles and their dye degradation activity. Dalton Transactions, 2022, 51, 12147-12160.	3.3	2
1603	Investigation of Reflow Effect and Empirical Lifetime Modeling on the Board Level Solder Joint Reliability. , 2022, , .		0
1604	Effect of isothermal aging on properties of In-48Sn and In-Sn-8Cu alloys. , 2022, , .		1
1605	Low Temperature Metal-to-Metal Direct Bonding in Atmosphere using highly (111) Oriented Nanotwinned Silver Interconnects. , 2022, , .		3
1607	Effect of Bi, Sb, and Ti on Microstructure and Mechanical Properties of SAC105 Alloys. Materials, 2022, 15, 4727.	2.9	4
1608	Study on the Influence of Defects on Fracture Mechanical Behavior of Cu/SAC305/Cu Solder Joint. Materials, 2022, 15, 4756.	2.9	3
1609	Analysis of extensive wetting angle vs. cooling rate data in Bi-, Zn- and Sn-based solder alloys. Microelectronics Reliability, 2022, 135, 114593.	1.7	3
1610	Effect of Sn Grain Orientation on Reliability Issues of Sn-Rich Solder Joints. Materials, 2022, 15, 5086.	2.9	11
1611	Effects of GNSs addition on the electromigration of Sn58Bi and Cu-core Sn58Bi joint. Journal of Materials Science, 2022, 57, 15598-15611.	3.7	6
1613	FIB-SEM based 3D tomography of micro-electronic components: Application to automotive high-definition LED lighting systems. Microelectronics Reliability, 2022, 137, 114749.	1.7	1
1614	Interfacial Endogenous Stress-Induced Phase-Stress Partition in Tin-Lead Dual-Phase Alloy at Cryogenic Temperature. SSRN Electronic Journal, 0, , .	0.4	0
1615	In, Ag, Al Katkılı Kurşunsuz Sn-Zn Lehim Alaşım Sistemlerinin Mekanik ve Mikroyapısal Özellikleri. Afyc Kocatepe University Journal of Sciences and Engineering, 2022, 22, 477-485.	on 0.2	0
1616	Boron Nitride Nanotubes Modified on a Lead-Free Solder Alloy for Microelectromechanical Packaging. ACS Applied Nano Materials, 2022, 5, 13626-13636.	5.0	7
1617	Effect of concentration of thiourea and ammonium citrate, electrodeposition stirring speed and current density on Sn-Ag-Cu coating for small size substrate. , 2022, , .		1
1618	Effects of tin particles addition on structural and mechanical properties of eutectic Sn–58Bi solder joint. Journal of Materials Science: Materials in Electronics, 2022, 33, 22499-22507.	2.2	6
1619	Understanding the surface segregation of solute atoms in Sn-Bi–based solder from first principles. Europhysics Letters, 2022, 139, 66002.	2.0	0
1620	Thermodynamic Modeling of the Ag-Cu-Sn Ternary System. Metals, 2022, 12, 1557.	2.3	4
1621	Effect of 0.3 wt% TiO ₂ nanoparticles on the thermal, structural, and mechanical properties of Sn _{3.8} Ag _{0.7} Cu _{1.0} Zn solder alloy. Physica Scripta, 2022, 97, 105709.	2.5	3

#	Article	IF	CITATIONS
1622	solder joints under isothermal aging. Journal of Materials Science: Materials in Electronics, 2022, 33, 25025-25040.	2.2	3
1623	Effect of Ag and Cu co-addition on the microstructure evolution, interface behavior and mechanical properties of Sn-5Sb based solder joints subjected to different thermal aging conditions. Microelectronics Reliability, 2022, 139, 114797.	1.7	5
1624	Thermodynamic Assessments of the Pd–Sn and Pt–Sn Systems With the Modified Quasi-chemical Model for Liquid. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2022, 53, 4296-4314.	2.2	5
1625	Effect of nano-phased bismuth–tin alloy surface coating on tribo-mechanical properties of basalt fiber reinforced composites. Journal of Materials Research and Technology, 2022, 21, 2238-2246.	5.8	1
1626	Study on interfacial reaction behavior of Sn Ag based lead-free solder with (111) single crystal copper substrate. Microelectronics Reliability, 2022, 139, 114825.	1.7	0
1627	Effect of low Bi content on mechanical properties of Sn-Bi-Zn-In alloy and its joint with Cu. , 2022, , .		0
1628	Fluxfree solder paste and process for standard SMD components. , 2022, , .		0
1629	Effects of Ni Content on Melting Behaviors and Wettability of SnBiAgNi Lead-Free Solder. Materials Science Forum, 0, 1074, 119-123.	0.3	0
1630	Supersaturated Ag-Cu nanoalloy film for high reliability power electronic packaging. Applied Surface Science, 2023, 612, 155663.	6.1	2
1631	Shear deformation behavior and failure mechanisms of graphene reinforced Sn-based solder joints bonded by transient current. Materials and Design, 2022, 224, 111369.	7.0	6
1632	Cu-Ag Nanocomposite Pastes for Low Temperature Bonding and Flexible Interlayer-Interconnections. Nanomaterials, 2022, 12, 4241.	4.1	3
1633	Study on the Application of Modified Sn-Based Solder in Cable Intermediate Joints. Materials, 2022, 15, 8385.	2.9	2
1634	Corrosion behaviour of Sn-9Zn-xS solders in 3.5 wt-% NaCl solution. Materials Science and Technology, 2023, 39, 1090-1099.	1.6	3
1635	Theoretical predictions of thermophysical properties of BiSn liquid alloys at 600ÂK. Materials Today: Proceedings, 2022, , .	1.8	0
1636	Unveiling the damage evolution of SAC305 during fatigue by entropy generation. International Journal of Mechanical Sciences, 2023, 244, 108087.	6.7	14
1637	Effect of Zn nanoparticle-doped flux on mechanical properties of SAC305 solder joint after electromigration. Journal of Materials Science: Materials in Electronics, 2023, 34, .	2.2	2
1638	Anisotropy of hardness and impression morphology in body-centered tetragonal tin (Sn) at cryogenic temperature and room temperature. Journal of Materials Science: Materials in Electronics, 2023, 34, .	2.2	0
1639	The Use of CuMnCo Alloy for the Adhesive Layer in the Restoration of Vehicle Parts by Gas-Thermal Spraying Methods. Lecture Notes in Networks and Systems, 2023, , 3158-3165.	0.7	0

#	Article	IF	CITATIONS
1640	Study on the effects of Ag addition on the mechanical properties and oxidation resistance of Sn–Zn lead-free solder alloy by high-throughput method. Journal of Materials Science: Materials in Electronics, 2023, 34, .	2.2	4
1641	Effect of Strain Rate on Tensile Behavior of Sn-9Zn-xAg-ySb; {(x, y) = (0.2, 0.6), (0.2, 0.8), (0.6, 0.2), (0.8,) Tj ETQ	1 0.784م1 0.4	314 rgBT
1642	Influence of Indium addition on microstructural and mechanical behavior of Sn solder alloys: Experiments and first principles calculations. Acta Materialia, 2023, 249, 118853.	7.9	11
1643	Effects of alloying elements on the interfacial segregation of bismuth in tin-based solders. Materials Today Communications, 2023, 35, 105713.	1.9	1
1644	Nucleation and growth of Ag3Sn in Sn-Ag and Sn-Ag-Cu solder alloys. Acta Materialia, 2023, 249, 118831.	7.9	11
1645	Wildfires as a Source of Potentially Toxic Elements (PTEs) in Soil: A Case Study from Campania Region (Italy). International Journal of Environmental Research and Public Health, 2023, 20, 4513.	2.6	5
1646	Theoretical investigation of the thermodynamic activities of Zn-In-Sn lead-free solder alloys and the concerned binary alloys. Materials Today: Proceedings, 2023, , .	1.8	1
1647	Effect of introducing high temperature gradients on IMC growth and shear properties in hourglass-shaped microbump joints during thermocompression bonding. Journal of Materials Science: Materials in Electronics, 2023, 34, .	2.2	0
1648	High-Temperature Thermal–Electrical Coupling Damage Mechanisms of SnAgCu/Cu Solder Joints. Journal of Electronic Materials, 2023, 52, 3807-3817.	2.2	3
1649	Thermal Properties of Low-Temperature-Sintered Graphene/Nano-silver Paste for Insulated Gate Bipolar Transistor Packages. Journal of Electronic Materials, 2023, 52, 4979-4987.	2.2	1
1650	Effect of deposition potential on electrodeposition of Sn-Ag-Cu ternary alloy solderable coating in deep eutectic solvent. Journal of Electroanalytical Chemistry, 2023, 943, 117613.	3.8	0
1651	Effect of Al and Bi addition on the corrosion behaviour, hardness, and melting temperature of lead-free solder alloys. Microelectronics Reliability, 2023, 147, 115051.	1.7	2
1652	The Effects of Microstructure and Ag3Sn and Cu6Sn5 Intermetallics on the Electrochemical Behavior of Sn-Ag and Sn-Cu Solder Alloys. International Journal of Electrochemical Science, 2012, 7, 6436-6452.	1.3	29
1653	A Review of Low-Temperature Solders in Microelectronics Packaging. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2023, 13, 570-579.	2.5	6
1654	Corrosion Study of Sn-9Zn Lead-Free Solder in Alkaline Solution. International Journal of Electrochemical Science, 2012, 7, 4182-4191.	1.3	16
1655	Synthesis and characterization of Sn–Cu/SiO2(np) lead-free nanocomposite solder through angular accumulative extrusion. Journal of Materials Science: Materials in Electronics, 2023, 34, .	2.2	0
1656	Effect of Surface-Treated Filler on the Wettability of Composite Solder: Short Review. Springer Proceedings in Physics, 2023, , 865-875.	0.2	0
1657	Effect of Wetting Characteristics of Dimpled Micro-textured Substrate on the Spreading Area of Sn–0.7Cu Solder Alloy. Springer Proceedings in Physics, 2023, , 843-850.	0.2	0

#	Article	IF	CITATIONS
1658	Formation and evolution mechanism of metal whiskers in extreme aerospace environments: A review. Chinese Journal of Aeronautics, 2023, 36, 1-13.	5.3	1
1659	Theoretical Examination of Some Thermodynamic Properties in In-Bi-Sn Liquid Alloy and its Sub-binary Systems. Journal of Electronic Materials, 0, , .	2.2	2
1660	Finite Element Analysis of Sn-58Bi Shear Test. Journal of Physics: Conference Series, 2023, 2523, 012043.	0.4	0
1661	Study on the properties of epoxy-based Sn 58Bi solder joints. Microelectronics Reliability, 2023, 148, 115144.	1.7	1
1662	Fabrication of high reliability Cu joints at low temperatures using synergistic effect of organic composition for power device packaging. Journal of Materials Science: Materials in Electronics, 2023, 34, .	2.2	0
1663	Glass with a low-melting temperature belonging to the P2O5–CaO–Na2O system, applied as a coating on technical ceramics (alumina, zirconia) and traditional ceramics (porcelain stoneware). Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2023, , .	1.9	0
1664	Modelling approach applied to SnIn coatings from choline chloride/ethylene glycol deep eutectic solvent. Journal of Molecular Liquids, 2023, , 122973.	4.9	0
1665	Flow behavior during solder/Cu column friction plunge micro-welding. Soldering and Surface Mount Technology, 0, , .	1.5	0
1666	Effect of Ag3Sn on Fracture Behaviors of Sn-3.5Ag Lead-Free Solder during In Situ Tensile Test at Low Temperature. Journal of Materials Engineering and Performance, 0, , .	2.5	0
1667	Microwave hybrid heating for lead-free solder: A review. Journal of Materials Research and Technology, 2023, 26, 6220-6243.	5.8	5
1668	Tailoring Microstructural and Electrical Properties of Hypoeutectic Sn-Cu Through Ni Doping. Journal of Electronic Materials, 0, , .	2.2	0
1669	Zn additions modifying microstructure, thermal parameters and cytotoxicity of Sn-0.7Cu eutectic solder alloys. Materials Characterization, 2023, 205, 113337.	4.4	1
1671	Computational assessment of Sn activities and integral excess free energy change for mixing in the Sn-Au-Cu ternary liquid alloys using the molecular interaction volume model. Journal of Physics Communications, 0, , .	1.2	1
1673	Microstructure and Bonding Strength of Low-Temperature Sintered Ag/Nano-Ag Films/Ag Joints. Metals, 2023, 13, 1833.	2.3	0
1675	Impact reliability enhancement approach of Sn–Bi–Zn–in alloy bumps under high-humidity and high-temperature tests. Journal of Materials Research and Technology, 2023, 27, 7013-7023.	5.8	0
1676	Improved microstructure and strength of Sn-Ag-Cu/Cu solder joint with Mo nanoparticles addition. Materials Letters, 2024, 356, 135597.	2.6	0
1677	Preparation and characterization of Sn-3.0Ag-0.5Cu nano-solder paste and assessment of the reliability of joints fabricated by microwave hybrid heating. Materials Characterization, 2024, 207, 113512.	4.4	7
1679	Pseudo lamellae of Cu6Sn5 on the crystal facet of Sn in electrodeposited eutectic Sn-Cu lead-free solder. Materials Today Communications, 2024, 38, 107864.	1.9	0

#	Article	IF	CITATIONS
1680	Aluminum addition to Sn-3Ag-0.5Cu-1In-xAl alloy effect on corrosion kinetics in HCl acid solution. Microelectronics Reliability, 2024, 152, 115307.	1.7	0
1681	The Interfacial Reaction of Ni/In/Ni Sandwich Structure During Solid-State Isothermal Aging. Journal of Electronic Materials, 0, , .	2.2	0
1683	Coupling effect between electromigration and joule heating on the failure of ball grid array in 3D integrated circuit technology. Journal of Materials Research and Technology, 2024, 28, 3573-3582.	5.8	0
1684	Effect of Minor Sb Additions on Thermal Properties, Microstructure and Microhardness of Sn–Ag–Cu High-Temperature Solder Alloys. Physics of Metals and Metallography, 2023, 124, 1547-1554.	1.0	0
1686	Sn–Bi–Ag Solder Enriched with Ta ₂ O ₅ Nanoparticles for Flexible Mini-LED Microelectronic Packaging. ACS Applied Nano Materials, 2024, 7, 1562-1571.	5.0	0
1687	Identification and Evolution of Intermetallic Compounds Formed at the Interface between In-48Sn and Cu during Liquid Soldering Reactions. Metals, 2024, 14, 139.	2.3	0
1688	Effect of indium addition on mechanical, thermal, and soldering properties of eutectic Sn–9Zn alloy. Materials Chemistry and Physics, 2024, 315, 128992.	4.0	0
1689	Influences of original solder grain orientation on thermal fatigue damage and microstructure evolution of the SnAgCu/Cu solder joints revealed by in-situ characterization. Journal of Materials Science: Materials in Electronics, 2024, 35, .	2.2	0
1690	Power Cycling Reliability with Temperature Deviation of Pressureless Silver Sintered Joint for Silicon Carbide Power Module. Jom, 0, , .	1.9	0
1691	An Experimental Investigation of a Flexible Sintered Silver Joint for Micro-Joining Based on a Design of Experiments. , 2023, , .		0
1692	Dissolution Behavior of Cu-2.0Âwt.% Be (Alloy 25) and Cu-0.1Âwt.% Fe (C19210) Substrates in Molten Sn-9Âwt.%Zn Solder. Jom, 0, , .	1.9	0
1693	Role of Zn in the Microstructure, Segregation, and Cytotoxicity of Sn-0.2 Ni Solders. ACS Omega, 2024, 9, 8829-8845.	3.5	0
1694	Ceramic-to-metal bonding using rare-earth containing Sn–Bi solder. Journal of Materials Science: Materials in Electronics, 2024, 35, .	2.2	0
1695	Effect of bias potential and dimension on electrochemical migration of capacitors for implantable devices. Npj Materials Degradation, 2024, 8, .	5.8	0
1696	Dual-cluster interpretation of Auâ \in "Sn binary eutectics and solders. AIP Advances, 2024, 14, .	1.3	0
1697	Thermal Cycling–Electric Current Coupling Damage Mechanisms of SnAgCu/Cu Solder Joints Under Different Temperature Ranges. Journal of Electronic Materials, 2024, 53, 2544-2553.	2.2	0
1698	A Computational Multiscale Modeling Method for Nanosilver-Sintered Joints with Stochastically Distributed Voids. Journal of Electronic Materials, 2024, 53, 2437-2454.	2.2	0
1699	Numerical investigation of solder joint shape for micro-spring package during vacuum vapor phase soldering. Microelectronics Reliability, 2024, 155, 115359.	1.7	0

#	Article	IF	CITATIONS
1700	Thermodynamic activity in Zn–Cu–Sn–In liquid solder alloys: a comprehensive analysis using the molecular interaction volume model. Welding International, 2024, 38, 265-276.	0.7	0
1701	Measuring coefficient of thermal expansion of materials of micrometre size using SEM/FIB microscope with in situ MEMS heating stage. Journal of Microscopy, 0, , .	1.8	0