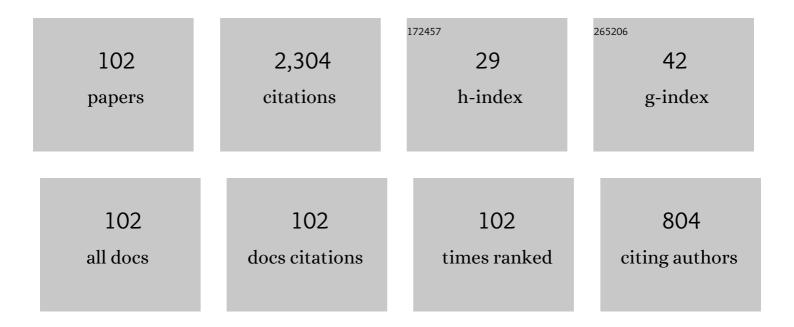
## Jeong-Won Yoon

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Intermetallic compound layer growth at the interface between Sn–Cu–Ni solder and Cu substrate. Journal of Alloys and Compounds, 2004, 381, 151-157.	5.5	99
2	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
3	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
4	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
5	Interfacial reactions and shear strengths between Sn-Ag-based Pb-free solder balls and Au/EN/Cu metallization. Journal of Electronic Materials, 2004, 33, 1182-1189.	2.2	78
6	Reliability investigation and interfacial reaction of ball-grid-array packages using the lead-free Sn-Cu solder. Journal of Electronic Materials, 2004, 33, 1190-1199.	2.2	74
7	IMC Growth and Shear Strength of Sn-Ag-Bi-In/Au/Ni/Cu BGA Joints During Aging. Materials Transactions, 2004, 45, 727-733.	1.2	71
8	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
9	Interfacial Reactions Between Sn-58 mass%Bi Eutectic Solder and (Cu, Electroless Ni-P/Cu) Substrate. Materials Transactions, 2002, 43, 1821-1826.	1.2	66
10	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
11	Effect of isothermal aging on intermetallic compound layer growth at the interface between Sn-3.5Ag-0.75Cu solder and Cu substrate. Journal of Materials Science, 2004, 39, 4211-4217.	3.7	58
12	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
13	Cu–Sn and Ni–Sn transient liquid phase bonding for die-attach technology applications in high-temperature power electronics packaging. Journal of Materials Science: Materials in Electronics, 2017, 28, 7827-7833.	2.2	57
14	Evaluation of Electrochemical Migration on Flexible Printed Circuit Boards with Different Surface Finishes. Journal of Electronic Materials, 2009, 38, 902-907.	2.2	45
15	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
16	Title is missing!. Journal of Materials Science: Materials in Electronics, 2003, 14, 487-493.	2.2	41
17	Cu-Sn Intermetallic Compound Joints for High-Temperature Power Electronics Applications. Journal of Electronic Materials, 2018, 47, 430-435.	2.2	41
18	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

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19	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
20	Interfacial reactions and mechanical strength of Sn-3.0Ag-0.5Cu/Ni/Cu and Au-20Sn/Ni/Cu solder joints for power electronics applications. Microelectronics Reliability, 2017, 71, 119-125.	1.7	37
21	Die-attach for power devices using the Ag sintering process: Interfacial microstructure and mechanical strength. Metals and Materials International, 2017, 23, 958-963.	3.4	34
22	Solid-state interfacial reactions between Sn–3.5Ag–0.7Cu solder and electroless Ni-immersion Au substrate during high temperature storage test. Journal of Alloys and Compounds, 2007, 439, 91-96.	5.5	33
23	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
24	Liquid-state and solid-state interfacial reactions of fluxless-bonded Au–20Sn/ENIG solder joint. Journal of Alloys and Compounds, 2009, 469, 108-115.	5.5	32
25	Effect of multiple reflows on interfacial reaction and shear strength of Sn–Ag electroplated solder bumps for flip chip package. Microelectronic Engineering, 2010, 87, 517-521.	2.4	32
26	Au–Sn flip-chip solder bump for microelectronic and optoelectronic applications. Microsystem Technologies, 2007, 13, 1463-1469.	2.0	31
27	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
28	Reliability analysis of Au–Sn flip-chip solder bump fabricated by co-electroplating. Journal of Materials Research, 2007, 22, 1219-1229.	2.6	30
29	Effect of Sintering Conditions on the Mechanical Strength of Cu-Sintered Joints for High-Power Applications. Materials, 2018, 11, 2105.	2.9	30
30	Microstructure, Electrical Properties, and Electrochemical Migration of a Directly Printed Ag Pattern. Journal of Electronic Materials, 2011, 40, 35-41.	2.2	29
31	Control of interfacial reaction layers formed in Sn–3.5Ag–0.7Cu/electroless Ni–P solder joints. Scripta Materialia, 2009, 60, 257-260.	5.2	27
32	Characterization of ternary Ni2SnP layer in Sn–3.5Ag–0.7Cu/electroless Ni (P) solder joint. Scripta Materialia, 2010, 63, 1108-1111.	5.2	24
33	Comparison of Interfacial Stability of Pb-Free Solders (Sn—3.5Ag, Sn—3.5Ag—0.7Cu, and Sn—0.7Cu) on ENIG-Plated Cu During Aging. IEEE Transactions on Components and Packaging Technologies, 2010, 33, 64-70.	1.3	23
34	Interfacial reaction between Au–Sn solder and Au/Ni-metallized Kovar. Journal of Materials Science: Materials in Electronics, 2011, 22, 84-90.	2.2	23
35	Bonding of power device to ceramic substrate using Sn-coated Cu micro paste for high-temperature applications. Applied Surface Science, 2020, 515, 146060.	6.1	23
36	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

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37	Adhesion characteristics of Cu/Ni–Cr/polyimide flexible copper clad laminates according to Ni:Cr ratio and Cu electroplating layer thickness. Journal of Materials Science: Materials in Electronics, 2009, 20, 885-890.	2.2	22
38	High temperature reliability and interfacial reaction of eutectic Sn–0.7Cu/Ni solder joints during isothermal aging. Microelectronics Reliability, 2006, 46, 905-914.	1.7	21
39	Effect of Ni(P) thickness in Au/Pd/Ni(P) surface finish on the electrical reliability of Sn–3.0Ag–0.5Cu solder joints during current-stressing. Journal of Alloys and Compounds, 2021, 850, 156729.	5.5	21
40	Effect of isothermal aging on the interfacial reactions between Sn–0.4Cu solder and Cu substrate with or without ENIG plating layer. Surface and Coatings Technology, 2006, 200, 4440-4447.	4.8	20
41	Mechanical Property Evaluation of Sn-3.0A-0.5Cu BGA Solder Joints Using High-Speed Ball Shear Test. Journal of Electronic Materials, 2009, 38, 2489-2495.	2.2	20
42	Effect of surface finish metallization on mechanical strength of Ag sintered joint. Microelectronic Engineering, 2018, 198, 15-21.	2.4	19
43	Electromigration Behavior in Sn-37Pb and Sn-3.0Ag-0.5Cu Flip-Chip Solder Joints under High Current Density. Journal of Electronic Materials, 2009, 38, 70-77.	2.2	18
44	Effects of crystalline and amorphous Pd layers on initial interfacial reactions at Sn-3.0Ag-0.5Cu/thin-Au/Pd/Ni(P) solder joints. Applied Surface Science, 2020, 503, 144339.	6.1	18
45	Comparative study of ENEPIG and thin ENEPIG as surface finishes for SAC305 solder joints. Journal of Materials Science: Materials in Electronics, 2018, 29, 4724-4731.	2.2	17
46	Microstructural evolution and interfacial reactions of fluxless-bonded Au-20Sn/Cu solder joint during reflow and aging. Journal of Materials Research, 2007, 22, 2817-2824.	2.6	16
47	Investigation of interfacial reaction and joint reliability between eutectic Sn–3.5Ag solder and ENIC-plated Cu substrate during high temperature storage test. Journal of Materials Science: Materials in Electronics, 2007, 18, 559-567.	2.2	16
48	Power Module Packaging Technology with Extended Reliability for Electric Vehicle Applications. Journal of the Microelectronics and Packaging Society, 2014, 21, 1-13.	0.1	16
49	Effect of Cr Thickness on Adhesion Strength of Cu/Cr/Polyimide Flexible Copper Clad Laminate Fabricated by Roll-to-Roll Process. Materials Transactions, 2010, 51, 85-89.	1.2	15
50	Optimal Ni(P) thickness and reliability evaluation of thin-Au/Pd(P)/Ni(P) surface-finish with Sn-3.0Ag-0.5Cu solder joints. Journal of Alloys and Compounds, 2019, 805, 1013-1024.	5.5	15
51	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
52	Effect of Ni-Cr seed layer thickness on the adhesion characteristics of flexible copper clad laminates fabricated using a roll-to-roll process. Metals and Materials International, 2010, 16, 779-784.	3.4	14
53	In situ TEM characterization of interfacial reaction in Sn–3.5Ag/electroless Ni(P) solder joint. Scripta Materialia, 2011, 64, 597-600.	5.2	14
54	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

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55	Electromigration effect on Sn-58Â% Bi solder joints with various substrate metallizations under current stress. Journal of Materials Science: Materials in Electronics, 2016, 27, 1105-1112.	2.2	14
56	Interfacial reaction and mechanical properties between low melting temperature Sn–58Bi solder and various surface finishes during reflow reactions. Journal of Materials Science: Materials in Electronics, 2015, 26, 1649-1660.	2.2	13
57	Characterization of Failure Behaviors in Anisotropic Conductive Interconnection. Materials Transactions, 2007, 48, 1070-1078.	1.2	12
58	Effects of Different Kinds of Underfills and Temperature–Humidity Treatments on Drop Reliability of Board-Level Packages. Journal of Electronic Materials, 2011, 40, 224-231.	2.2	12
59	Effects of a phosphorous-containing Pd layer in a thin-ENEPIG surface finish on the interfacial reactions and mechanical strength of a Sn–58Bi solder joint. Journal of Alloys and Compounds, 2020, 820, 153396.	5.5	12
60	Fast formation of Ni–Sn intermetallic joints using Ni–Sn paste for high-temperature bonding applications. Journal of Materials Science: Materials in Electronics, 2020, 31, 15048-15060.	2.2	12
61	Solder joint reliability in flip chip package with surface treatment of ENIG under thermal shock test. Metals and Materials International, 2009, 15, 655-660.	3.4	11
62	Lead-free Solder for Automotive Electronics and Reliability Evaluation of Solder Joint. Journal of Welding and Joining, 2016, 34, 26-34.	1.3	11
63	Phase analysis and kinetics of solid-state ageing of Pb-free Sn3.5Ag solder on electroless NiP substrate. Surface and Interface Analysis, 2004, 36, 963-965.	1.8	10
64	Effects of Underfill Materials and Thermal Cycling on Mechanical Reliability of Chip Scale Package. IEEE Transactions on Components and Packaging Technologies, 2009, 32, 633-638.	1.3	10
65	Mechanical Reliability of Sn-Ag BGA Solder Joints With Various Electroless Ni-P and Ni-B Plating Layers. IEEE Transactions on Components and Packaging Technologies, 2010, 33, 222-228.	1.3	10
66	Thermal Aging Characteristics of Sn-xSb Solder for Automotive Power Module. Journal of Welding and Joining, 2017, 35, 38-47.	1.3	10
67	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
68	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
69	Interfacial reactions and mechanical properties of In–48Sn solder joint with electroplated Au/Ni ball grid array (BGA) substrate after multiple reflows. Journal of Materials Research, 2008, 23, 1631-1641.	2.6	9
70	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
71	Effect of Sintering Conditions on Microstructure and Mechanical Strength of Cu Micro-Particle Sintered Joints for High-Power Semiconductor Module Applications. Journal of Welding and Joining, 2019, 37, 26-34.	1.3	9
72	Nickel–tin transient liquid phase sintering with high bonding strength for high-temperature power applications. Journal of Materials Science: Materials in Electronics, 2019, 30, 20205-20212.	2.2	8

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73	Solderability of thin ENEPIG plating Layer for Fine Pitch Package application. Journal of the Microelectronics and Packaging Society, 2017, 24, 83-90.	0.1	8
74	Effect of temperature on shear properties of Sn-3.0Ag-0.5Cu and Sn-58Bi solder joints. Journal of Alloys and Compounds, 2022, 903, 163987.	5.5	8
75	Fabrication of Ni Metal Mask by Electroforming Process Using Wetting Agents. Journal of Electronic Materials, 2007, 36, 1510-1515.	2.2	7
76	Mechanical strength and fracture mode transition of Sn-58Bi epoxy solder joints under high-speed shear test. Journal of Materials Science: Materials in Electronics, 2012, 23, 1515-1520.	2.2	7
77	Joint reliability evaluation of thermo-compression bonded FPCB/RPCB joints under high temperature storage test. Microelectronics Reliability, 2013, 53, 2036-2042.	1.7	7
78	Sequential interfacial reactions of <scp>SAC305</scp> solder joints with thin <scp>ENEPIG</scp> surface finishes. Surface and Interface Analysis, 2018, 50, 1046-1050.	1.8	7
79	Fast formation of Cu-Sn intermetallic joints using pre-annealed Sn/Cu/Sn composite preform for high-temperature bonding applications. Thin Solid Films, 2020, 698, 137873.	1.8	7
80	Ultrasonic Bonding Technology for Flip Chip Packaging. Journal of Welding and Joining, 2008, 26, 31-36.	0.3	7
81	Effects of different kinds of seed layers and heat treatment on adhesion characteristics of Cu/(Cr or) Tj ETQq1	1 0.784314 2.2	FrgBT /Over or 6
82	Interfacial reactions and mechanical strength of Sn-3.0Ag-0.5Cu/0.1㎛-Ni thin ENEPIG solder joint. Journal of Welding and Joining, 2017, 35, 51-58.	1.3	6
83	Flip-chip Bonding Technology and Reliability of Electronic Packaging. Journal of Welding and Joining, 2007, 25, 6-15.	0.3	6
84	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
85	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
86	Comparative study of normal and thin Au/Pd/Ni(P) surface finishes with Sn–3.0Ag–0.5Cu solder joints under isothermal aging. Journal of Materials Science: Materials in Electronics, 2021, 32, 24790-24800.	2.2	5
87	Comparative study of interfacial reaction and bonding property of laser- and reflow-soldered Sn–Ag–Cu/Cu joints. Journal of Materials Science: Materials in Electronics, 2022, 33, 7983-7994.	2.2	5
88	Effects of solder volume and size on microstructures and mechanical properties of Sn-3.0Ag-0.5Cu solder joints. Journal of Materials Science: Materials in Electronics, 2022, 33, 16700-16709.	2.2	5
89	Characteristic analysis of electroless Ni plating layer for electronic packaging. Surface and Interface Analysis, 2006, 38, 440-443.	1.8	4
90	A novel and simple fabrication technology for high power module with enhanced thermal		3

performance., 2012,,.

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91	Effects of Ni layer thickness of thin-ENEPIG surface finishes on the interfacial reactions and shear strength of Sn-3.0Ag–0.5Cu solder joints during aging. Journal of Materials Science: Materials in Electronics, 2019, 30, 12911-12923.	2.2	3
92	A Study of Transient Liquid Phase Bonding Using an Ag-Sn3.0Ag0.5Cu Hybrid Solder Paste. Journal of Welding and Joining, 2021, 39, 376-383.	1.3	3
93	High-temperature stability of Ni-Sn intermetallic joints for power device packaging. Journal of Alloys and Compounds, 2022, 890, 161778.	5.5	3
94	Effect of Thin ENEPIG Plating Thickness on Interfacial Reaction and Brittle Fracture Rate of Sn-3.0Ag-0.5Cu Solder Joints. Journal of Welding and Joining, 2018, 36, 52-60.	1.3	3
95	Metallurgically and mechanically reliable microsilver-sintered joints for automotive power module applications. Journal of Materials Science: Materials in Electronics, 2022, 33, 1724-1737.	2.2	2
96	A Study of the Growth Rate of Cu-Sn Intermetallic Compounds for Transient Liquid Phase Bonding during Isothermal Aging. , 2018, , .		1
97	Interfacial reactions and mechanical properties of Sn–3.0Ag–0.5Cu solder with pure Pd or Pd(P) layers containing thin-Au/Pd/Ni(P) surface-finished PCBs during aging. Journal of Materials Science: Materials in Electronics, 2020, 31, 4027-4039.	2.2	1
98	The Effect of Environmental Test on the Shear Strength of the Ultrasonic bonded Cu Terminal for Power Module. Journal of Welding and Joining, 2019, 37, 1-6.	1.3	1
99	Intermetallic compound transformation and mechanical strength of Ni–Sn transient liquid phase sinter-bonded joints in an extreme high-temperature environment. Journal of Materials Science: Materials in Electronics, 2022, 33, 6616.	2.2	1
100	Effects of shear test temperatures and conditions on mechanical properties of Sn–Ag flip-chip solder bumps. Journal of Materials Science: Materials in Electronics, 2022, 33, 10002-10012.	2.2	1
101	Effects of Ni(P) layer thickness and Pd layer type in thin-Au/Pd/Ni(P) surface finishes on interfacial reactions and mechanical strength of Sn–58Bi solder joints during aging. Journal of Materials Science: Materials in Electronics, 2020, 31, 19852-19874.	2.2	0
102	Recent Studies of Transient Liquid Phase Bonding Technology for Electric Vehicles. Journal of Welding and Joining, 0, , .	1.3	0