

Shengyan Shang

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

244
citations

933447

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h-index

996975

15
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31
all docs

31
docs citations

31
times ranked

159
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Heat and mass transfer effects of laser soldering on growth behavior of interfacial intermetallic compounds in Sn/Cu and Sn-3.5Ag0.5/Cu joints. <i>Microelectronics Reliability</i> , 2018, 80, 55-67. | 1.7 | 34 |
| 2 | A data-driven framework to predict the morphology of interfacial Cu ₆ Sn ₅ IMC in SAC/Cu system during laser soldering. <i>Journal of Materials Science and Technology</i> , 2020, 50, 115-127. | 10.7 | 31 |
| 3 | Synthesis of Cu@Ag core-shell nanoparticles for characterization of thermal stability and electric resistivity. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1. | 2.3 | 25 |
| 4 | Evolution behavior and growth kinetics of intermetallic compounds at Sn/Cu interface during multiple reflows. <i>Intermetallics</i> , 2018, 96, 1-12. | 3.9 | 22 |
| 5 | Roles of interfacial heat transfer and relative solder height on segregated growth behavior of intermetallic compounds in Sn/Cu joints during furnace cooling. <i>Intermetallics</i> , 2018, 93, 186-196. | 3.9 | 17 |
| 6 | Enhancement of hardness of bulk solder by doping Cu nanoparticles at the interface of Sn/Cu solder joint. <i>Microelectronic Engineering</i> , 2019, 208, 47-53. | 2.4 | 15 |
| 7 | Size effect on interface reaction of Sn-xCu/Cu solder joints during multiple reflows. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 4359-4369. | 2.2 | 13 |
| 8 | Effect of initial Cu concentration on the IMC size and grain aspect ratio in Sn-xCu solders during multiple reflows. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 602-613. | 2.2 | 12 |
| 9 | Electrochemical migration behavior of Sn-based lead-free solder. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 14695-14702. | 2.2 | 12 |
| 10 | Effect of the TiO_2 Nanoparticles on the Growth Behavior of Intermetallics in Sn/Cu Solder Joints. <i>Metals and Materials International</i> , 2019, 25, 499-507. | 3.4 | 10 |
| 11 | Geometrical Effects of Cu@Ag Core-Shell Nanoparticles Treated Flux on the Growth Behaviour of Intermetallics in Sn/Cu Solder Joints. <i>Electronic Materials Letters</i> , 2019, 15, 253-265. | 2.2 | 9 |
| 12 | Pronounced electromigration of GaInSn/Cu interconnects under super low critical current density. <i>Materials Letters</i> , 2021, 300, 130137. | 2.6 | 7 |
| 13 | Formation of Nanoporous Anodized Tin Oxide Films in Electrolyte Containing F^- and S_2^{2-} . <i>ECS Journal of Solid State Science and Technology</i> , 2020, 9, 104010. | 1.8 | 7 |
| 14 | Effect of polycrystalline Cu microstructures on IMC growth behavior at Sn/Cu soldering interface. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 15964-15971. | 2.2 | 5 |
| 15 | Growth behavior of preferentially scalloped intermetallic compounds at extremely thin peripheral Sn/Cu interface. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 2872-2887. | 2.2 | 5 |
| 16 | Geometrical effects on growth kinetics of interfacial intermetallic compounds in Sn/Cu joints reflowed with Cu nanoparticles doped flux. <i>Thin Solid Films</i> , 2019, 669, 198-207. | 1.8 | 5 |
| 17 | Modelling the melting of Sn _{0.7} Cu solder using the enthalpy method. , 2016, , . | | 4 |
| 18 | Effects of Cu nanoparticles doped flux on the microstructure of IMCs between Sn solder and Cu substrate. , 2017, , . | | 3 |

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|----|--|-----|-----------|
| 19 | All-round suppression of Cu ₆ Sn ₅ growth in Sn/Cu joints by utilizing TiO ₂ nanoparticles. Journal of Materials Science: Materials in Electronics, 2018, 29, 15966-15972. | 2.2 | 3 |
| 20 | Effects of TiO ₂ nanoparticles addition on physical and soldering properties of Sn-xTiO ₂ composite solder. Journal of Materials Science: Materials in Electronics, 2019, 30, 18828-18837. | 2.2 | 3 |
| 21 | Quantitative polynomial free energy based phase field model for void motion and evolution in Sn under thermal gradient. , 2017, , . | | 1 |
| 22 | Effect of TiO ₂ nanoparticle on intermetallic compounds growth of Cu/Sn/Cu Solder Joint. , 2019, , . | | 1 |
| 23 | A Computational Model for Simulation of Temperature During Radio-Frequency Ablation of Biological Tissue. , 2018, , . | | 0 |
| 24 | Study on Electrochemical Migration of Sn-0.7Cu. , 2018, , . | | 0 |
| 25 | A Numerical Model for Joule heating in Sn Solder Balls of Two Different Sizes. , 2018, , . | | 0 |
| 26 | Influence of Cu nanoparticles on Cu₆Sn₅ growth behavior at the interface of Sn/Cu solder joints. , 2018, , . | | 0 |
| 27 | Effect of Ag content on Cu₆Sn₅ growth behavior at Sn-Ag/Cu solder interface during multiple reflows. , 2018, , . | | 0 |
| 28 | Electrochemical Migration behavior of Sn ₉ Zn. , 2019, , . | | 0 |
| 29 | Size effects on segregated growth kinetics of interfacial IMC between Sn solder and Cu substrate. , 2019, , . | | 0 |
| 30 | Growth behavior of Cu ₆ Sn ₅ Grains at Sn _{3.0} Ag/(001)Cu Soldering Interface. , 2019, , . | | 0 |
| 31 | Study on the coordination agent system of Sn-Ag-Cu ternary alloy co-deposition. , 2020, , . | | 0 |