

Majid Samavatian

List of Publications by Year in descending order

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16
papers

389
citations

687363

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940533

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197
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlation-driven machine learning for accelerated reliability assessment of solder joints in electronics. <i>Scientific Reports</i> , 2020, 10, 14821.	3.3	47
2	Role of tensile elastostatic loading on atomic structure and mechanical properties of Zr ₅₅ Cu ₃₀ Ni ₅ Al ₁₀ bulk metallic glass. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 753, 218-223.	5.6	37
3	Extra rejuvenation of Zr ₅₅ Cu ₃₀ Al ₁₀ Ni ₅ bulk metallic glass using elastostatic loading and cryothermal treatment interaction. <i>Journal of Non-Crystalline Solids</i> , 2019, 506, 39-45.	3.1	34
4	Effects of Creep Failure Mechanisms on Thermomechanical Reliability of Solder Joints in Power Semiconductors. <i>IEEE Transactions on Power Electronics</i> , 2020, 35, 8956-8964.	7.9	34
5	Discovery of novel quaternary bulk metallic glasses using a developed correlation-based neural network approach. <i>Computational Materials Science</i> , 2021, 186, 110025.	3.0	34
6	Transient liquid phase bonding of Al 2024 to TiAl ₄ V alloy using Cu-Zn interlayer. <i>Transactions of Nonferrous Metals Society of China</i> , 2015, 25, 770-775.	4.2	26
7	Effect of solder layer thickness on thermo-mechanical reliability of a power electronic system. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 15249-15258.	2.2	25
8	Correlation Between Plasticity and Atomic Structure Evolution of a Rejuvenated Bulk Metallic Glass. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 4743-4749.	2.2	25
9	An investigation on microstructure evolution and mechanical properties during liquid state diffusion bonding of Al ₂₀₂₄ to TiAl ₄ V. <i>Materials Characterization</i> , 2014, 98, 113-118.	4.4	24
10	Effects of Nb minor addition on atomic structure and glass forming ability of Zr ₅₅ Cu ₃₀ Ni ₅ Al ₁₀ bulk metallic glass. <i>Materials Research Express</i> , 2019, 6, 065202.	1.6	20
11	Combination of thermal cycling and vibration loading effects on the fatigue life of solder joints in a power module. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2019, 233, 1753-1763.	1.1	19
12	Inherent relation between atomic-level stresses and nanoscale heterogeneity in Zr-based bulk metallic glass under a rejuvenation process. <i>Physica B: Condensed Matter</i> , 2020, 595, 412390.	2.7	17
13	Iterative Machine Learning-Aided Framework Bridges Between Fatigue and Creep Damages in Solder Interconnections. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2022, 12, 349-358.	2.5	17
14	Characterization of nanoscale structural heterogeneity in metallic glasses: A machine learning study. <i>Journal of Non-Crystalline Solids</i> , 2022, 578, 121344.	3.1	13
15	Improving the reliability of ball grid arrays under random vibration by optimization of module design. <i>Mechanics of Advanced Materials and Structures</i> , 2020, 27, 1748-1755.	2.6	10
16	Thermomechanical Fatigue Damage Model of a Solder Joint in Electronic Devices: An Interval Arithmetic Based Approach. <i>Journal of Electronic Materials</i> , 2022, 51, 5376-5388.	2.2	7