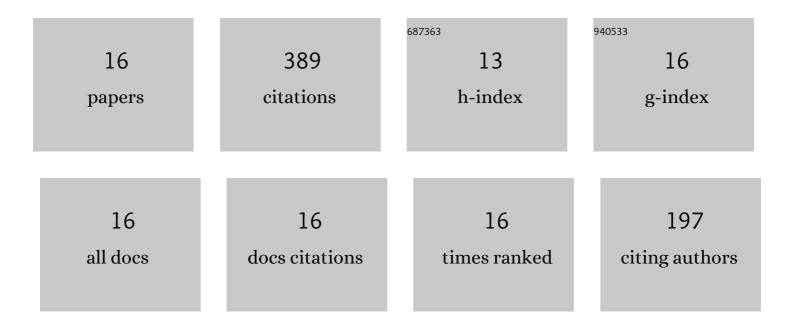
## Majid Samavatian

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/11520903/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Correlation-driven machine learning for accelerated reliability assessment of solder joints in electronics. Scientific Reports, 2020, 10, 14821.	3.3	47
2	Role of tensile elastostatic loading on atomic structure and mechanical properties of Zr55Cu30Ni5Al10 bulk metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 753, 218-223.	5.6	37
3	Extra rejuvenation of Zr55Cu30Al10Ni5 bulk metallic glass using elastostatic loading and cryothermal treatment interaction. Journal of Non-Crystalline Solids, 2019, 506, 39-45.	3.1	34
4	Effects of Creep Failure Mechanisms on Thermomechanical Reliability of Solder Joints in Power Semiconductors. IEEE Transactions on Power Electronics, 2020, 35, 8956-8964.	7.9	34
5	Discovery of novel quaternary bulk metallic glasses using a developed correlation-based neural network approach. Computational Materials Science, 2021, 186, 110025.	3.0	34
6	Transient liquid phase bonding of Al 2024 to Ti–6Al–4V alloy using Cu–Zn interlayer. Transactions of Nonferrous Metals Society of China, 2015, 25, 770-775.	4.2	26
7	Effect of solder layer thickness on thermo-mechanical reliability of a power electronic system. Journal of Materials Science: Materials in Electronics, 2018, 29, 15249-15258.	2.2	25
8	Correlation Between Plasticity and Atomic Structure Evolution of a Rejuvenated Bulk Metallic Glass. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 4743-4749.	2.2	25
9	An investigation on microstructure evolution and mechanical properties during liquid state diffusion bonding of Al2024 to Ti–6Al–4V. Materials Characterization, 2014, 98, 113-118.	4.4	24
10	Effects of Nb minor addition on atomic structure and glass forming ability of Zr <sub>55</sub> Cu <sub>30</sub> Ni <sub>5</sub> Al <sub>10</sub> bulk metallic glass. Materials Research Express, 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. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 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. Physica B: Condensed Matter, 2020, 595, 412390.	2.7	17
13	Iterative Machine Learning-Aided Framework Bridges Between Fatigue and Creep Damages in Solder Interconnections. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2022, 12, 349-358.	2.5	17
14	Characterization of nanoscale structural heterogeneity in metallic glasses: A machine learning study. Journal of Non-Crystalline Solids, 2022, 578, 121344.	3.1	13
15	Improving the reliability of ball grid arrays under random vibration by optimization of module design. Mechanics of Advanced Materials and Structures, 2020, 27, 1748-1755.	2.6	10
16	Thermomechanical Fatigue Damage Model of a Solder Joint in Electronic Devices: An Interval Arithmetic Based Approach. Journal of Electronic Materials, 2022, 51, 5376-5388.	2.2	7