

Ganesh Subbarayan

List of Publications by Year in descending order

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138
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1,498
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times ranked

801
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A Mechanistic Model for Plastic Metal Line Ratcheting Induced BEOL Cracks in Molded Packages. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2022, 12, 522-536. | 2.5 | 1 |
| 2 | A procedure for efficient generation and behavioral evaluation of ultra-packed ellipsoidal particle systems. International Journal for Numerical Methods in Engineering, 2022, 123, 1547-1575. | 2.8 | 1 |
| 3 | A Computational Strategy for Code- and Mesh-Agnostic Nonlinear Global-Local Analysis. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2022, 12, 740-759. | 2.5 | 2 |
| 4 | Efficient Local Refinement near Parametric Boundaries Using kd-Tree Data Structure and Algebraic Level Sets. Algorithms, 2022, 15, 245. | 2.1 | 1 |
| 5 | Parametric stitching for smooth coupling of subdomains with non-matching discretizations. Computer Methods in Applied Mechanics and Engineering, 2021, 373, 113519. | 6.6 | 3 |
| 6 | Singular enrichment for multi-material corners with application to assessing the risk of fracture in semiconductor devices. Engineering Fracture Mechanics, 2021, 248, 107739. | 4.3 | 6 |
| 7 | Improved Dixon Resultant for Generating Signed Algebraic Level Sets and Algebraic Boolean Operations on Closed Parametric Surfaces. CAD Computer Aided Design, 2021, 135, 103004. | 2.7 | 3 |
| 8 | Influence of Pad Surface Finish on the Microstructure Evolution and Intermetallic Compound Growth in Homogeneous Sn-Bi and Sn-Bi-Ag Solder Interconnects. Journal of Electronic Materials, 2021, 50, 6615-6628. | 2.2 | 8 |
| 9 | Interface balance laws, phase growth and nucleation conditions for multiphase solids with inhomogeneous surface stress. Continuum Mechanics and Thermodynamics, 2020, 32, 987-1010. | 2.2 | 3 |
| 10 | Reliability of Metal-Dielectric Structures Under Intermittent Current Pulsing. , 2020, , . | | 1 |
| 11 | A Mechanistic Model for Plastic Metal Line Ratcheting Induced BEOL Cracks in Molded Packages. , 2020, , . | | 4 |
| 12 | Algebraic Point Projection for Immersed Boundary Analysis on Low Degree NURBS Curves and Surfaces. Algorithms, 2020, 13, 82. | 2.1 | 4 |
| 13 | Fatigue Life of Sn3.0Ag0.5Cu Solder Alloy Under Combined Cyclic Shear and Constant Tensile/Compressive Loads. Journal of Electronic Packaging, Transactions of the ASME, 2020, 142, . | 1.8 | 7 |
| 14 | Topological Modifications through Boolean Compositions on Algebraic Level Sets Constructed from B-rep Models. Computer-Aided Design and Applications, 2020, 17, 1177-1192. | 0.6 | 1 |
| 15 | Meshfree CAD-CAE Integration through Immersed B-rep Model and Enriched Isogeometric Analysis. Computer-Aided Design and Applications, 2020, 17, 1193-1214. | 0.6 | 3 |
| 16 | A phase field computational procedure for electromigration with specified contact angle and diffusional anisotropy. Computational Mechanics, 2020, 66, 373-390. | 4.0 | 10 |
| 17 | Comparative Evaluation of Algorithms for Achieving Ultrapacked Thermal Greases: Microstructural Models and Effective Behavior. Journal of Electronic Packaging, Transactions of the ASME, 2020, 142, . | 1.8 | 1 |
| 18 | Adhesive toughness and instability in bonded heterogeneous films. International Journal of Solids and Structures, 2019, 169, 41-54. | 2.7 | 19 |

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| 19 | Maximum Entropy Models for Fatigue Damage in Metals with Application to Low-Cycle Fatigue of Aluminum 2024-T351. Entropy, 2019, 21, 967. | 2.2 | 19 |
| 20 | Estimating the Modulus and Yield Strength of the Top-Layer Film on Multilayer BEOL Stacks. IEEE Transactions on Device and Materials Reliability, 2018, 18, 438-449. | 2.0 | 0 |
| 21 | Characterization of Rate-Dependent Constitutive Behavior of Copper Free-Air Ball and Its Use for Wire Bonding Process Simulation. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2018, 8, 1092-1106. | 2.5 | 1 |
| 22 | Estimation of Effective Thermal and Mechanical Properties of Particulate Thermal Interface Materials by a Random Network Model. Journal of Electronic Packaging, Transactions of the ASME, 2018, 140, . | 1.8 | 7 |
| 23 | Estimation of Effective Thermal and Mechanical Properties of Particulate Thermal Interface Materials (TIMs) by a Random Network Model. , 2017, , . | | 1 |
| 24 | Signed algebraic level sets on NURBS surfaces and implicit Boolean compositions for isogeometric CADâ€“CAE integration. CAD Computer Aided Design, 2017, 82, 112-126. | 2.7 | 13 |
| 25 | Simultaneous thermal/flow characterization of thermal interface materials. , 2016, , . | | 0 |
| 26 | Estimation of passivated metal stack modulus through simulations of Micro-indentation. , 2016, , . | | 1 |
| 27 | A framework for studying dynamics and stability of diffusiveâ€“reactive interfaces with application to Cu ₆ Sn ₅ intermetallic compound growth. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2016, 472, 20160134. | 2.1 | 3 |
| 28 | An Assessment of Risk of Fracture During Wirebond Over Active Circuits on ULK Dies. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2016, 6, 314-325. | 2.5 | 1 |
| 29 | DiffCode: A System for the Simulation of Diffusion Driven Phase Evolution in Solids. , 2015, , . | | 3 |
| 30 | Simulations of arbitrary crack path deflection at a material interface in layered structures. Engineering Fracture Mechanics, 2015, 141, 124-139. | 4.3 | 19 |
| 31 | HiGeoM: A symbolic framework for a unified function space representation of trivariate solids for isogeometric analysis. CAD Computer Aided Design, 2015, 65, 34-50. | 2.7 | 2 |
| 32 | ISOCOMP: Unified geometric and material composition for optimal topology design. Structural and Multidisciplinary Optimization, 2015, 51, 687-703. | 3.5 | 10 |
| 33 | A sharp interface isogeometric solution to the Stefan problem. Computer Methods in Applied Mechanics and Engineering, 2015, 284, 556-582. | 6.6 | 10 |
| 34 | Maximum entropy fracture model and its use for predicting cyclic hysteresis in Sn3.8Ag0.7Cu and Sn3.0Ag0.5 solder alloys. Microelectronics Reliability, 2014, 54, 2513-2522. | 1.7 | 14 |
| 35 | A model for the free (top) surface deformation of through-silicon vias. , 2014, , . | | 1 |
| 36 | Characterization of cu free air ball constitutive behavior using microscale compression test. , 2014, , . | | 1 |

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| 37 | Simulations of damage and fracture in ULK under pad structures during Cu wirebond process. , 2014, , . | | 2 |
| 38 | Algebraic distance estimations for enriched isogeometric analysis. Computer Methods in Applied Mechanics and Engineering, 2014, 280, 28-56. | 6.6 | 13 |
| 39 | Analytical estimates of stress around a doubly periodic arrangement of through-silicon vias. Microelectronics Reliability, 2013, 53, 63-69. | 1.7 | 8 |
| 40 | Optimal topological design through insertion and configuration of finite-sized heterogeneities. International Journal of Solids and Structures, 2013, 50, 429-446. | 2.7 | 2 |
| 41 | Effect of pad surface finish and reflow cooling rate on the microstructure and the mechanical behavior of SnAgCu solder alloys. Microelectronics Reliability, 2013, 53, 892-898. | 1.7 | 5 |
| 42 | An Improved Efficient Network Model for Determining the Effective Thermal Conductivity of Particulate Thermal Interface Materials. Journal of Electronic Packaging, Transactions of the ASME, 2013, 135, . | 1.8 | 4 |
| 43 | Algebraic Distance Field for Meshless Analysis of Free Form CAD Models. Computer-Aided Design and Applications, 2013, 10, 427-443. | 0.6 | 0 |
| 44 | Simulations of Deformation and Stress During Copper Wirebond on ULK Chips. , 2013, , . | | 0 |
| 45 | Quantification of Behavioral Uncertainty Resulting from Insertion of Heterogeneity into Microstructure. , 2012, , . | | 0 |
| 46 | Microstructurally Adaptive Model for Primary and Secondary Creep of Sn-Ag-Based Solders. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2012, 2, 256-265. | 2.5 | 43 |
| 47 | Simulations of Damage, Crack Initiation, and Propagation in Interlayer Dielectric Structures: Understanding Assembly-Induced Fracture in Dies. IEEE Transactions on Device and Materials Reliability, 2012, 12, 241-254. | 2.0 | 21 |
| 48 | Mechanical and thermal response of compliant Thermal Interface Materials under cyclic loading. , 2012, , . | | 0 |
| 49 | Maximum entropy fracture model and fatigue fracture of mixed SnPb/Sn3.0Ag0.5Cu solder alloys. , 2012, , . | | 0 |
| 50 | A Hybrid Hierarchical Procedure for Composing Trivariate NURBS Solids. Computer-Aided Design and Applications, 2012, 9, 215-226. | 0.6 | 3 |
| 51 | An Information Theoretic Argument on the Form of Damage Accumulation in Solids. Mechanics of Advanced Materials and Structures, 2012, 19, 184-195. | 2.6 | 4 |
| 52 | Isogeometric enriched field approximations. Computer Methods in Applied Mechanics and Engineering, 2012, 245-246, 1-21. | 6.6 | 26 |
| 53 | Topological design of channels for squeeze flow optimization of thermal interface materials. International Journal of Heat and Mass Transfer, 2012, 55, 3560-3575. | 4.8 | 10 |
| 54 | Maximum-Entropy Principle for Modeling Damage and Fracture in Solder Joints. Journal of Electronic Materials, 2012, 41, 398-411. | 2.2 | 24 |

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| 55 | Constitutive Behavior of Mixed Sn-Pb/Sn-3.0Ag-0.5Cu Solder Alloys. Journal of Electronic Materials, 2012, 41, 596-610. | 2.2 | 9 |
| 56 | Estimating Kapitza Resistance Between $\{m Si\} \{m SiO\}_2$ Interface Using Molecular Dynamics Simulations. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2011, 1, 1132-1139. | 2.5 | 19 |
| 57 | Cooling rate, pad finish effects on mechanical behavior of SnAgCu alloys. , 2011, , . | | 1 |
| 58 | Aging aware constitutive models for SnAgCu solder alloys. , 2011, , . | | 5 |
| 59 | Estimating the Yield Strength of Thin Metal Films Through Elastic-Plastic Buckling-Induced Debonding. IEEE Transactions on Device and Materials Reliability, 2011, 11, 358-361. | 2.0 | 2 |
| 60 | Modeling Fracture in Dielectric Stacks due to Chip-Package Interaction: Impact of Dielectric Material Selection. , 2011, , . | | 0 |
| 61 | NURBS representational strategies for tracking moving boundaries and topological changes during phase evolution. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 2594-2610. | 6.6 | 3 |
| 62 | Singularities at Solder Joint Interfaces and Their Effects on Fracture Models. Journal of Electronic Packaging, Transactions of the ASME, 2010, 132, . | 1.8 | 3 |
| 63 | On instability-induced debond initiation in thin film systems. Engineering Fracture Mechanics, 2010, 77, 1298-1313. | 4.3 | 22 |
| 64 | A non-contact, thermally-driven buckling delamination test to measure interfacial fracture toughness of thin film systems. Thin Solid Films, 2010, 518, 2056-2064. | 1.8 | 15 |
| 65 | Coordinated synthesis of hierarchical engineering systems. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 392-404. | 6.6 | 8 |
| 66 | Development of a microstructurally adaptive unified primary-cumsecondary creep model for SAC387 solder joints. , 2010, , . | | 0 |
| 67 | Buckling, wrinkling and debonding in thin film systems. , 2010, , . | | 1 |
| 68 | Squeeze flow characterization of particle-filled polymeric materials through image correlation. , 2010, , . | | 0 |
| 69 | Hierarchical Partition of Unity Field Compositions (HPFC) for Optimal Design in the Presence of Cracks. Mechanics of Advanced Materials and Structures, 2010, 17, 467-480. | 2.6 | 6 |
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| 71 | Improved Solder Joint Fatigue Models Through Reduced Geometry Dependence of Empirical Fits. Journal of Electronic Packaging, Transactions of the ASME, 2009, 131, . | 1.8 | 0 |
| 72 | Microstructural coarsening in Sn-Ag-based solders and its effects on mechanical properties. Jom, 2009, 61, 29-38. | 1.9 | 83 |

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| 73 | Hierarchical field compositions for simulations of near-percolation thermal transport in particulate materials. Computer Methods in Applied Mechanics and Engineering, 2009, 198, 657-668. | 6.6 | 8 |
| 74 | Constitutive and Aging Behavior of Sn3.0Ag0.5Cu Solder Alloy. IEEE Transactions on Electronics Packaging Manufacturing, 2009, 32, 221-232. | 1.4 | 95 |
| 75 | Thermally induced wrinkling in thin-film stacks on patterned substrates. IBM Journal of Research and Development, 2009, 53, 12:1-12:10. | 3.1 | 2 |
| 76 | Multiscale modeling for reliability assessment in microelectronic systems. , 2009, , . | | 0 |
| 77 | The Effect of Polydispersivity on the Thermal Conductivity of Particulate Thermal Interface Materials. IEEE Transactions on Components and Packaging Technologies, 2009, 32, 424-434. | 1.3 | 10 |
| 78 | Predicting Crack Growth and Fatigue Lives of QFN Solder Joints Using a Multiscale Fracture Model. , 2009, , . | | 0 |
| 79 | Thermal Solution Maps: A Strategy for Thermal Design of Three-Dimensional Packages. Journal of Electronic Packaging, Transactions of the ASME, 2009, 131, . | 1.8 | 4 |
| 80 | Mechanistic Model for Aging Influenced Steady State Flow Behavior of Sn3.8Ag0.7Cu Solder Alloys. , 2009, , . | | 4 |
| 81 | Estimating Kapitza resistance between Si-SiO ₂ interface using molecular dynamics simulations. Intersociety Conference on Thermal and Thermomechanical Phenomena in Electronic Systems, 2008, , . | 0.0 | 4 |
| 82 | An Efficient Network Model for Determining the Effective Thermal Conductivity of Particulate Thermal Interface Materials. IEEE Transactions on Components and Packaging Technologies, 2008, 31, 611-621. | 1.3 | 44 |
| 83 | Constitutive Behavior of Sn3.8Ag0.7Cu and Sn1.0Ag0.5Cu Alloys at Creep and Low Strain Rate Regimes. IEEE Transactions on Components and Packaging Technologies, 2008, 31, 622-633. | 1.3 | 87 |
| 84 | Singularities at solder joint interfaces and their effects on fracture models: Part II. Intersociety Conference on Thermal and Thermomechanical Phenomena in Electronic Systems, 2008, , . | 0.0 | 1 |
| 85 | A Nonlinear Fracture Mechanics Approach to Modeling Fatigue Crack Growth in Solder Joints. Journal of Electronic Packaging, Transactions of the ASME, 2008, 130, . | 1.8 | 7 |
| 86 | Joint Scale Dependence of Aging Kinetics in Sn-Ag-Cu Solders. , 2008, , . | | 12 |
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| 88 | Effects of Dwell Time on the Fatigue Life of Sn3.8Ag0.7Cu and Sn3.0Ag0.5Cu Solder Joints During Simulated Power Cycling. , 2007, , . | | 2 |
| 89 | Fatigue Crack Growth and Life Descriptions of Sn3.8Ag0.7Cu Solder Joints: A Computational and Experimental Study. , 2007, , . | | 4 |
| 90 | Constitutive Behavior of Sn3.8Ag0.7Cu and Sn1.0Ag0.5Cu Alloys at Creep and Low Strain Rate Regimes. , 2007, , 183. | | 3 |

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| 91 | CAD inspired hierarchical partition of unity constructions for NURBS-based, meshless design, analysis and optimization. International Journal for Numerical Methods in Engineering, 2007, 72, 1452-1489. | 2.8 | 35 |
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| 96 | A Numerical Study of Transport in a Thermal Interface Material Enhanced With Carbon Nanotubes. Journal of Electronic Packaging, Transactions of the ASME, 2006, 128, 92-97. | 1.8 | 5 |
| 97 | A Model for Assessing the Shape of Solder Joints in the Presence of PCB and Package Warpage. Journal of Electronic Packaging, Transactions of the ASME, 2006, 128, 184-191. | 1.8 | 5 |
| 98 | Thermo-elastic properties of dense YSZ and porous Ni-ZrO ₂ monolithic and isotropic materials. Journal of Materials Science, 2006, 41, 1221-1232. | 3.7 | 26 |
| 99 | jNURBS: An object-oriented, symbolic framework for integrated, meshless analysis and optimal design. Advances in Engineering Software, 2006, 37, 287-311. | 3.8 | 20 |
| 100 | A Three-Dimensional Solder Shape Model Incorporating Top Pad Inclination and Misalignment. Journal of Electronic Packaging, Transactions of the ASME, 2006, 128, 291-293. | 1.8 | 3 |
| 101 | Response surface models for efficient, modular estimation of solder joint reliability in area array packages. Microelectronics Reliability, 2005, 45, 623-635. | 1.7 | 7 |
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| 103 | Power cycling thermal fatigue of Sn–Pb solder joints on a chip scale package. International Journal of Fatigue, 2004, 26, 497-510. | 5.7 | 30 |
| 104 | Constructive solid analysis: a hierarchical, geometry-based meshless analysis procedure for integrated design and analysis. CAD Computer Aided Design, 2004, 36, 473-486. | 2.7 | 72 |
| 105 | The effect of model building on the accuracy of fatigue life predictions in electronic packages. Microelectronics Reliability, 2004, 44, 115-127. | 1.7 | 15 |
| 106 | A Constructive Approach for Heterogeneous Material Modeling and Analysis. Computer-Aided Design and Applications, 2004, 1, 171-178. | 0.6 | 11 |
| 107 | A study on the variation of effective CTE of printed circuit boards through a validated comparison between strain gages and Moire interferometry. IEEE Transactions on Components and Packaging Technologies, 2003, 26, 712-718. | 1.3 | 14 |
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| 109 | A dynamic model for predicting the motion solder droplets during assembly. IEEE Transactions on Components and Packaging Technologies, 2003, 26, 698-704. | 1.3 | 2 |
| 110 | Predictive reliability models through validated correlation between power cycling and thermal cycling accelerated life tests. Soldering and Surface Mount Technology, 2002, 14, 51-60. | 1.5 | 35 |
| 111 | An evaluation of back-propagation neural networks for the optimal design of structural systems: Part I. Training procedures. Computer Methods in Applied Mechanics and Engineering, 2002, 191, 2873-2886. | 6.6 | 46 |
| 112 | An evaluation of back-propagation neural networks for the optimal design of structural systems: Part II. Numerical evaluation. Computer Methods in Applied Mechanics and Engineering, 2002, 191, 2887-2904. | 6.6 | 29 |
| 113 | Applications of a Decomposed Analysis Procedure for Area-Array Packages. Journal of Electronic Packaging, Transactions of the ASME, 2001, 123, 132-140. | 1.8 | 0 |
| 114 | Decomposition Techniques for the Efficient Analysis of Area-Array Packages. Journal of Electronic Packaging, Transactions of the ASME, 2000, 122, 13-19. | 1.8 | 8 |
| 115 | NURBS-based solutions to inverse boundary problems in droplet shape prediction. Computer Methods in Applied Mechanics and Engineering, 2000, 190, 1391-1406. | 6.6 | 30 |
| 116 | A System for First Order Reliability Estimation of Solder Joints in Area Array Packages. Journal of Electronic Packaging, Transactions of the ASME, 2000, 122, 6-12. | 1.8 | 12 |
| 117 | LGA Connectors: An Automated Design Technique for a Shrinking Design Space. Journal of Electronic Packaging, Transactions of the ASME, 2000, 122, 247-254. | 1.8 | 4 |
| 118 | A Reconciliation of Local and Global Models for Bone Remodeling Through Optimization Theory. Journal of Biomechanical Engineering, 2000, 122, 72-76. | 1.3 | 7 |
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| 120 | A Two-Body Formulation for Solder Joint Shape Prediction. Journal of Electronic Packaging, Transactions of the ASME, 1998, 120, 302-308. | 1.8 | 9 |
| 121 | The Effect of Stencil Printing Optimization on Reliability of CBGA and PBGA Solder Joints. Journal of Electronic Packaging, Transactions of the ASME, 1998, 120, 54-60. | 1.8 | 9 |
| 122 | Maximizing Solder Joint Reliability Through Optimal Shape Design. Journal of Electronic Packaging, Transactions of the ASME, 1997, 119, 149-155. | 1.8 | 9 |
| 123 | The Impact of Interfacial Adhesion on PTH and Via Stress State. Journal of Electronic Packaging, Transactions of the ASME, 1997, 119, 260-267. | 1.8 | 6 |
| 124 | A Procedure for Automated Shape and Life Prediction in Flip-Chip and BGA Solder Joints. Journal of Electronic Packaging, Transactions of the ASME, 1996, 118, 127-133. | 1.8 | 32 |
| 125 | Reliability Simulations for Solder Joints Using Stochastic Finite Element and Artificial Neural Network Models. Journal of Electronic Packaging, Transactions of the ASME, 1996, 118, 148-156. | 1.8 | 36 |
| 126 | A design for assembly evaluation methodology for photonic systems. IEEE Transactions on Components, Packaging and Manufacturing Technology Part C Manufacturing, 1996, 19, 189-200. | 0.4 | 3 |

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| 127 | Reliability of metallized ceramic packages. IEEE Transactions on Advanced Packaging, 1996, 19, 685-691. | 0.6 | 5 |
| 128 | A model for assessing the shape of solder joints in the presence of board warpage and volume variation in area-array packages. , 0, , . | | 0 |
| 129 | Issues in low-cost manufacture of reliable optoelectronic systems. , 0, , . | | 0 |
| 130 | A comparison between moire interferometry and strain gages for effective CTE measurement in electronic packages. , 0, , . | | 3 |
| 131 | The effect of model building on the accuracy of fatigue life predictions in electronic packages. , 0, , . | | 2 |
| 132 | An analytical study of transport in a thermal interface material enhanced with carbon nanotubes. , 0, , . | | 6 |
| 133 | Powercycling Reliability, Failure Analysis and Acceleration Factors of Pb-Free Solder Joints. , 0, , . | | 14 |
| 134 | Solder interconnection specimen design and test control procedure for valid constitutive modeling of solder alloys. , 0, , . | | 6 |
| 135 | Non-Empirical Modeling of Fatigue in Lead-Free Solder Joints: Fatigue Failure Analysis and Estimation of Fracture Parameters. , 0, , . | | 2 |
| 136 | A nonlinear fracture mechanics perspective on solder joint failure: going beyond the coffin-manson equation. , 0, , . | | 3 |
| 137 | Thermal conductivity of amorphous silica using non-equilibrium molecular dynamics simulations. , 0, , . | | 0 |
| 138 | Conservation laws for arbitrary objectives with application to fracture resistant design. International Journal of Fracture, 0, , . | 2.2 | 0 |