

# Bongtae Han

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

176  
papers

3,038  
citations

27  
h-index

50  
g-index

216  
ext. papers

3,652  
ext. citations

2.1  
avg, IF

5.41  
L-index

#	Paper	IF	Citations
176	EMC Oxidation Under High-Temperature Aging <b>2022</b> , 53-80		0
175	Effect of critical properties of epoxy molding compound on warpage prediction: A critical review. <i>Microelectronics Reliability</i> , <b>2022</b> , 130, 114480	1.2	0
174	Thermal Performance of Cryogenic Micro-Pin Fin Coolers with Two-Phase Liquid Nitrogen Flows. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 11071	2.6	0
173	High temperature aging of epoxy-based molding compound and its effect on mechanical behavior of molded electronic package. <i>Polymer Degradation and Stability</i> , <b>2021</b> , 188, 109572	4.7	2
172	Degradation Estimation and Prediction of Electronic Packages using Data Driven Approach. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	5
171	Thermal and optical performance of cryogenically cooled laser diode bars mounted on pin-finned microcoolers. <i>Applied Physics B: Lasers and Optics</i> , <b>2021</b> , 127, 1	1.9	1
170	Towards virtual twin for electronic packages in automotive applications. <i>Microelectronics Reliability</i> , <b>2021</b> , 122, 114134	1.2	2
169	Volumetric effective cure shrinkage measurement of dual curable adhesives by fiber Bragg grating sensor. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 9655-9664	4.3	4
168	In-situ service load monitoring of automotive electronic systems using silicon-based piezoresistive stress sensor. <i>Microelectronics Reliability</i> , <b>2020</b> , 110, 113650	1.2	2
167	Moisture Transport Through Housing Materials Enclosing Critical Automotive Electronics. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2020</b> , 10, 541-550	1.7	1
166	Stacking Yield Prediction of Package-on-Package Assembly Using Advanced Uncertainty Propagation Analysis: Part I Stochastic Model Development. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , <b>2020</b> , 142,	2	3
165	Stacking Yield Prediction of Package-on-Package Assembly Using Uncertainty Propagation Analysis Part II: Implementation of Stochastic Model. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , <b>2020</b> , 142,	2	3
164	. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 9139-9148	4	6
163	Measurements of Inelastic Strain Evolution of Single Solder Grain Subject to Nominal Shear Loading. <i>Experimental Mechanics</i> , <b>2019</b> , 59, 1075-1086	2.6	
162	Degradation Prediction of Electronic Packages using Machine Learning <b>2019</b> ,		2
161	Advanced Statistical Model Calibration to Determine Manufacturing-Induced Variations of Effective Elastic Properties of SAC Solder Joints in Leadless Chip Resistor Assemblies. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2019</b> , 9, 797-804	1.7	
160	Hybrid Approach to Conduct Failure Prognostics of Automotive Electronic Control Unit Using Stress Sensor as In Situ Load Counter. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2019</b> , 9, 28-38	1.7	4

159	Algorithm to Determine the Knee Point on Capacity Fade Curves of Lithium-Ion Cells. <i>Energies</i> , <b>2019</b> , 12, 2910	3.1	19
158	Nonlinear Compressible Finite Viscoelasticity of Epoxy-Based Polymers <b>2019</b> , 335-340		
157	Test Scheme and Degradation Model of Accumulated Electrostatic Discharge (ESD) Damage for Insulated Gate Bipolar Transistor (IGBT) Prognostics. <i>IEEE Transactions on Device and Materials Reliability</i> , <b>2019</b> , 19, 233-241	1.6	3
156	Study of Thermal Aging Behavior of Epoxy Molding Compound for Applications in Harsh Environments <b>2019</b> ,		3
155	\$In Situ\$ Failure Detection of Electronic Control Units Using Piezoresistive Stress Sensor. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2018</b> , 8, 750-763	1.7	6
154	Advanced Mechanical/Optical Configuration of Real-Time Moiré Interferometry for Thermal Deformation Analysis of Fan-Out Wafer Level Package. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2018</b> , 8, 764-772	1.7	8
153	Thermal Characterization of Die-Attach Material Interface of High-Power Light-Emitting Diodes. <i>Solid State Lighting Technology and Application Series</i> , <b>2018</b> , 159-178	0.7	2
152	Numerical/Experimental Hybrid Approach to Predict Warpage of Thin Advanced Substrates <b>2018</b> ,		9
151	Stacking Yield Prediction of Package-on-Package Considering the Statistical Distributions of Top/Bottom Package Warpings and Solder Ball Heights <b>2018</b> ,		1
150	Prediction of Statistical Distribution of Vibration-Induced Solder Fatigue Failure Considering Intrinsic Variations of Mechanical Properties of Anisotropic Sn-Rich Solder Alloys <b>2018</b> ,		3
149	Effects of Underfill on Thermo-Mechanical Behavior of Fan-out Wafer Level Package Used in PoP: An Experimental Study by Advancements of Real-Time Moiré Interferometry <b>2018</b> ,		1
148	Characterization of Linear Viscoelastic Behavior of Epoxy Molding Compound Subjected to Uniaxial Compression and Hydrostatic Pressure. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2018</b> , 8, 1363-1372	1.7	3
147	Measurement of anisotropic coefficients of thermal expansion of SAC305 solder using surface strains of single grain with arbitrary orientation. <i>Acta Materialia</i> , <b>2018</b> , 156, 196-204	8.4	7
146	Moisture Ingress, Behavior, and Prediction Inside Semiconductor Packaging: A Review. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , <b>2017</b> , 139,	2	10
145	Measurement of Elastic Properties of Epoxy Molding Compound by Single Cylindrical Configuration with Embedded Fiber Bragg Grating Sensor. <i>Experimental Mechanics</i> , <b>2017</b> , 57, 313-324	2.6	7
144	Assembly yield prediction of plastically encapsulated packages with a large number of manufacturing variables by advanced approximate integration method. <i>Microelectronics Reliability</i> , <b>2017</b> , 78, 319-330	1.2	6
143	Condition Monitoring Algorithm for Piezoresistive Silicon-Based Stress Sensor Data Obtained from Electronic Control Units <b>2017</b> ,		3
142	Towards prognostics and health monitoring: The potential of fault detection by piezoresistive silicon stress sensor. <i>Microelectronics Reliability</i> , <b>2017</b> , 74, 165-172	1.2	5

141	Hybrid Approach to Conduct Failure Prognostics of Automotive Electronic Control Unit <b>2017</b> ,		2
140	Prognostics and health monitoring of electronic system: A review <b>2017</b> ,		2
139	Non-linear Viscoelastic Modeling of Epoxy Based Molding Compound for Large Deformations Encountered in Power Modules <b>2017</b> ,		2
138	Deconvolution of spectral power distribution of high-power laser diode arrays. <i>Applied Optics</i> , <b>2017</b> , 56, 5590-5598	1.7	5
137	Comprehensive Viscoelastic Properties Characterization of EMC Using FBG Sensor. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2017</b> , 173-180	0.3	
136	Modified single cantilever adhesion test for EMC/PSR interface in thin semiconductor packages. <i>Microelectronics Reliability</i> , <b>2016</b> , 63, 134-141	1.2	2
135	In-situ investigation of EMC relaxation behavior using piezoresistive stress sensor. <i>Microelectronics Reliability</i> , <b>2016</b> , 62, 58-62	1.2	8
134	Probabilistic Lifetime Prediction of Electronic Packages Using Advanced Uncertainty Propagation Analysis and Model Calibration. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2016</b> , 6, 238-248	1.7	5
133	Autocorrelation-based time synchronous averaging for condition monitoring of planetary gearboxes in wind turbines. <i>Mechanical Systems and Signal Processing</i> , <b>2016</b> , 70-71, 161-175	7.8	62
132	Method for predicting junction temperature distribution in a high-power laser diode bar. <i>Applied Optics</i> , <b>2016</b> , 55, 7487-96	0.2	11
131	Effect of junction temperature on heat dissipation of high power light emitting diodes. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 125104	2.5	16
130	Blister Testing for Adhesion Strength Measurement of Polymer Films Subjected to Environmental Conditions. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , <b>2016</b> , 138,	2	1
129	Towards prognostics and health monitoring: The potential of fault detection by piezoresistive silicon stress sensor <b>2016</b> ,		9
128	Thermal deformation analysis of automotive electronic control units subjected to passive and active thermal conditions <b>2015</b> ,		1
127	In-situ investigation of EMC relaxation behavior using piezoresistive stress sensor <b>2015</b> ,		5
126	Physics-of-Failure, Condition Monitoring, and Prognostics of Insulated Gate Bipolar Transistor Modules: A Review. <i>IEEE Transactions on Power Electronics</i> , <b>2015</b> , 30, 2413-2426	7.2	242
125	Prognostic approaches for the wirebond failure prediction in power semiconductors: A case study using DPAK package <b>2015</b> ,		7
124	. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2015</b> , 5, 1635-1643	1.7	4

123	Prediction of Statistical Distribution of Solder Joint Fatigue Lifetime Using Hybrid Probabilistic Approach. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2015</b> , 165-169	0.3	1
122	Board level reliability analysis of chip resistor assemblies under thermal cycling: A comparison study between SnPb and SnAgCu. <i>Journal of Mechanical Science and Technology</i> , <b>2014</b> , 28, 879-886	1.6	13
121	Degradation analysis of secondary lens system and its effect on performance of LED-based luminaire. <i>Microelectronics Reliability</i> , <b>2014</b> , 54, 131-137	1.2	3
120	Hygrothermal Behavior of Advanced Polymers Above Water Boiling Temperatures. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , <b>2014</b> , 136,	2	2
119	Measurement of effective chemical shrinkage and equilibrium modulus of silicone elastomer used in potted electronic system. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 8301-8310	4.3	11
118	Adhesion and Puncture Strength of Polyurethane Coating Used to Mitigate Tin Whisker Growth. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , <b>2014</b> , 136,	2	8
117	Dual-Configuration Fiber Bragg Grating Sensor Technique to Measure Coefficients of Thermal Expansion and Hygroscopic Swelling. <i>Experimental Mechanics</i> , <b>2014</b> , 54, 593-603	2.6	9
116	Analytical/Experimental Hybrid Approach Based on Spectral Power Distribution for Quantitative Degradation Analysis of Phosphor Converted LED. <i>IEEE Transactions on Device and Materials Reliability</i> , <b>2014</b> , 14, 365-374	1.6	21
115	Generalized Hybrid Modeling to Determine Chemical Shrinkage and Modulus Evolutions at Arbitrary Temperatures. <i>Experimental Mechanics</i> , <b>2013</b> , 53, 1783-1790	2.6	10
114	Hierarchical Reliability Assessment Models for Novel LED-Based Recessed Down Lighting Systems <b>2013</b> , 455-495		
113	Optimum design domain of LED-based solid state lighting considering cost, energy consumption and reliability. <i>Microelectronics Reliability</i> , <b>2013</b> , 53, 435-442	1.2	20
112	Spectral power distribution deconvolution scheme for phosphor-converted white light-emitting diode using multiple Gaussian functions. <i>Applied Optics</i> , <b>2013</b> , 52, 1016-24	1.7	17
111	Life prediction of LED-based recess downlight cooled by synthetic jet. <i>Microelectronics Reliability</i> , <b>2012</b> , 52, 937-948	1.2	15
110	Numerical study on the mixing performance of a ring-type electroosmotic micromixer with different obstacle configurations. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2012</b> , 12, 4523-30	1.3	11
109	Measurements of true leak rates of MEMS packages. <i>Sensors</i> , <b>2012</b> , 12, 3082-104	3.8	9
108	Thermal-structural modeling of polymer Bragg grating waveguides illuminated by a light emitting diode. <i>Applied Optics</i> , <b>2012</b> , 51, 726-34	1.7	
107	Simultaneous Measurement of Effective Chemical Shrinkage and Modulus Evolutions During Polymerization. <i>Experimental Mechanics</i> , <b>2011</b> , 51, 1155-1169	2.6	22
106	Reliability Evaluation of Conformal Coatings for Tin Whisker Failure Mitigation in Accelerated Testing Conditions. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2011</b> , 107-108	0.3	

105	Rapid Characterization of Visco-elastic Properties of Polymeric Materials. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2011</b> , 287-288	0.3	
104	Hierarchical Reliability Model for Life Prediction of Actively Cooled LED-Based Luminaire. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2011</b> , 189-190	0.3	
103	Modeling of Moisture Diffusion and Moisture-Induced Stresses in Semiconductor and MEMS Packages <b>2010</b> , 181-219		2
102	Analytical and molecular simulation study of water condensation behavior in mesopores with closed ends. <i>Journal of Chemical Physics</i> , <b>2010</b> , 132, 104702	3.9	5
101	Modified coupled-mode model for thermally chirped polymer Bragg gratings. <i>Applied Optics</i> , <b>2010</b> , 49, 2079-84	0.2	
100	Measurement of the Hygroscopic Swelling Coefficient of Thin Film Polymers Used in Semiconductor Packaging. <i>IEEE Transactions on Components and Packaging Technologies</i> , <b>2010</b> , 33, 340-346		18
99	Direct Submount Cooling of High-Power LEDs. <i>IEEE Transactions on Components and Packaging Technologies</i> , <b>2010</b> , 33, 698-712		39
98	Hierarchical Life Prediction Model for Actively Cooled LED-Based Luminaire. <i>IEEE Transactions on Components and Packaging Technologies</i> , <b>2010</b> , 33, 728-737		27
97	Development of a High-Lumen Solid State Down Light Application. <i>IEEE Transactions on Components and Packaging Technologies</i> , <b>2010</b> , 33, 668-679		7
96	. <i>IEEE Transactions on Components and Packaging Technologies</i> , <b>2010</b> , 33, 809-818		21
95	Coupled Thermal and Thermo-Mechanical Design Assessment of High Power Light Emitting Diode. <i>IEEE Transactions on Components and Packaging Technologies</i> , <b>2010</b> , 33, 688-697		12
94	Forward-stepwise regression analysis for fine leak batch testing of wafer-level hermetic MEMS packages. <i>Microelectronics Reliability</i> , <b>2010</b> , 50, 507-513	1.2	2
93	Nano-Pattern Recognition and Correlation Technique for Sub-Nanometer In-Plane Displacement Measurement. <i>Experimental Mechanics</i> , <b>2010</b> , 50, 1169-1181	2.6	3
92	Recent Applications of Moiré Interferometry. <i>Experimental Mechanics</i> , <b>2010</b> , 50, 1129-1147	2.6	37
91	Characterization of Hygroscopic Deformations by Moiré Interferometry <b>2010</b> , 113-130		
90	Analytical solutions of gas transport problems in inorganic/organic hybrid structures for gas barrier applications. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 093532	2.5	7
89	In situ measurement of gas diffusion properties of polymeric seals used in MEMS packages by optical gas leak testing. <i>Journal of Micro/Nanolithography, MEMS, and MOEMS</i> , <b>2009</b> , 8, 043025	0.7	4
88	Hermeticity Evaluation of Polymer-Sealed MEMS Packages by Gas Diffusion Analysis. <i>Journal of Microelectromechanical Systems</i> , <b>2009</b> , 18, 577-587	2.5	9

87	Quantitative Characterization of True Leak Rate of Micro to Nanoliter Packages Using Helium Mass Spectrometer. <i>IEEE Transactions on Advanced Packaging</i> , <b>2009</b> , 32, 440-447		3
86	THE TILTED-PLATE METHOD FOR INTRODUCING CARRIER FRINGES OF EXTENSION IN MOIRÉ INTERFEROMETRY. <i>Experimental Techniques</i> , <b>2008</b> , 13, 25-29	1.4	7
85	Geometric Moiré <i>Springer Handbooks</i> , <b>2008</b> , 601-626	1.3	3
84	Thermofluid characteristics of two-phase flow in micro-gap channels. <i>Intersociety Conference on Thermal and Thermomechanical Phenomena in Electronic Systems</i> , <b>2008</b> ,		2
83	Ideal laminate theory for water transport analysis of metal-coated polymer films. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 133307	3-4	9
82	Nonlinear Stress Modeling Scheme to Analyze Semiconductor Packages Subjected to Combined Thermal and Hygroscopic Loading. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , <b>2008</b> , 130,	2	18
81	On Ultra-Fine Leak Detection of Hermetic Wafer Level Packages. <i>IEEE Transactions on Advanced Packaging</i> , <b>2008</b> , 31, 14-21		20
80	Advanced Thermal-Moisture Analogy Scheme for Anisothermal Moisture Diffusion Problem. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , <b>2008</b> , 130,	2	38
79	On the applicability of MIL-Spec-based helium fine leak test to packages with sub-micro liter cavity volumes. <i>Microelectronics Reliability</i> , <b>2008</b> , 48, 1815-1821	1.2	7
78	Integrated Measurement Technique for Curing Process-Dependent Mechanical Properties of Polymeric Materials Using Fiber Bragg Grating. <i>Experimental Mechanics</i> , <b>2008</b> , 48, 107-117	2.6	18
77	Moiré Interferometry. <i>Springer Handbooks</i> , <b>2008</b> , 627-654	1.3	12
76	Thermofluid Characteristics of Two-Phase Microgap Coolers <b>2007</b> ,		2
75	Advanced iterative algorithm for randomly phase-shifted interferograms with intra- and inter-frame intensity variations. <i>Optics and Lasers in Engineering</i> , <b>2007</b> , 45, 274-280	4.6	47
74	Thermo-optical modeling of polymer fiber Bragg grating illuminated by light emitting diode. <i>International Journal of Heat and Mass Transfer</i> , <b>2007</b> , 50, 5241-5248	4.9	8
73	On Moisture Diffusion Modeling Using Thermal-Moisture Analogy. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , <b>2007</b> , 129, 421-426	2	46
72	Fiber Bragg Grating Sensor to Characterize Curing Process-dependent Mechanical Properties of Polymeric Materials <b>2007</b> ,		3
71	Advanced Co-Planarity Measurement Tools for the Warpage Investigation of Non-Conventional Packages Caused by Reflow and Assembly Process <b>2007</b> ,		1
70	An Advanced Real-Time Moiré Interferometry System With Conductive Heating/Cooling and Its Application on a Creep Behavior of Solder <b>2007</b> , 479		

69	Phase-shifting in achromatic moiré interferometry system. <i>Optics Express</i> , <b>2007</b> , 15, 9970-6	3.3	6
68	Thermo-optical modeling of an intrinsically heated polymer fiber Bragg grating. <i>Applied Optics</i> , <b>2007</b> , 46, 4357-70	1.7	6
67	OS1-2-1 In-situ Nano-scale Thermal Deformation Measurements Using Nano-Pattern Recognition and Correlation Technique. <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics</i> , <b>2007</b> , 2007.6, _OS1-2-1-1-_OS1-2-1-6	0	
66	Recent Developments and Applications of Photomechanics Methods for Microelectronics Product Development <b>2007</b> , 15-16		
65	Characterization of Stresses and Strains in Microelectronics and Photonics Devices Using Photomechanics Methods <b>2007</b> , A475-A522		3
64	High Sensitivity Shadow Moiré Using Nonzero-Order Talbot Distance. <i>Experimental Mechanics</i> , <b>2006</b> , 46, 543-554	2.6	11
63	Error analysis of the phase-shifting technique when applied to shadow moiré <i>Applied Optics</i> , <b>2006</b> , 45, 1124-33	1.7	20
62	Characterization of flexural and thermo-mechanical behavior of plastic ball grid package assembly using moiré interferometry. <i>Microelectronics Reliability</i> , <b>2005</b> , 45, 637-646	1.2	14
61	Inverse method to determine elastic constants using a circular disk and moiré interferometry. <i>Experimental Mechanics</i> , <b>2005</b> , 45, 27-34	2.6	20
60	Contrast of shadow moiré at high-order Talbot distances. <i>Optical Engineering</i> , <b>2005</b> , 44, 028002	1.1	11
59	Inverse Method to Determine Elastic Constants Using a Circular Disk and Moire Interferometry. <i>Experimental Mechanics</i> , <b>2005</b> , 45, 27-34	2.6	18
58	Infrared diffraction interferometer for coplanarity measurement of high-density solder bump pattern. <i>Optical Engineering</i> , <b>2004</b> , 43, 888	1.1	
57	Real-time observation of thermally induced warpage of flip-chip package using far-infrared Fizeau interferometry. <i>Experimental Mechanics</i> , <b>2004</b> , 44, 628-633	2.6	6
56	Characterization of hygroscopic swelling behavior of mold compounds and plastic packages. <i>IEEE Transactions on Components and Packaging Technologies</i> , <b>2004</b> , 27, 499-506		84
55	Advanced iterative algorithm for phase extraction of randomly phase-shifted interferograms. <i>Optics Letters</i> , <b>2004</b> , 29, 1671-3	3	362
54	Temperature Dependent Deformation Analysis of Ceramic Ball Grid Array Package Assembly Under Accelerated Thermal Cycling Condition. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , <b>2004</b> , 126, 41-47	2	21
53	Measurement of Hygroscopic Swelling in Mold Compounds and Its Effect on PEM Reliability <b>2003</b> , 497		5
52	MEASUREMENT OF THE HYGROSCOPIC SWELLING COEFFICIENT IN MOLD COMPOUNDS USING MOIRÉ INTERFEROMETRY. <i>Experimental Techniques</i> , <b>2003</b> , 27, 40-44	1.4	22



51	THERMAL STRESSES IN MICROELECTRONICS SUBASSEMBLIES: QUANTITATIVE CHARACTERIZATION USING PHOTOMECHANICS METHODS. <i>Journal of Thermal Stresses</i> , <b>2003</b> , 26, 583-613	43
50	Strain Measurements At The Limit - The Moiré Microscope. <i>Series in Optics and Optoelectronics</i> , <b>2003</b> , 3-48	
49	Electronic Packaging. <i>Series in Optics and Optoelectronics</i> , <b>2003</b> , 121-175	
48	Out-Of-Plane Deformation, Flatness And Shape Measurement. <i>Series in Optics and Optoelectronics</i> , <b>2003</b> , 373-424	
47	OBSERVING REAL-TIME THERMAL DEFORMATIONS IN ELECTRONIC PACKAGING. <i>Experimental Techniques</i> , <b>2002</b> , 26, 25-29	1.4 39
46	MEASUREMENT OF THERMAL EXPANSION COEFFICIENT OF FLEXIBLE SUBSTRATE BY MOIRÉ INTERFEROMETRY. <i>Experimental Techniques</i> , <b>2001</b> , 25, 22-25	1.4 9
45	Sensitivity enhancement of far-infrared Fizeau interferometry by digital image processing. <i>Optical Engineering</i> , <b>2001</b> , 40, 1970	1.1 4
44	Moiré Interferometry for engineering mechanics: Current practices and future developments. <i>Journal of Strain Analysis for Engineering Design</i> , <b>2001</b> , 36, 101-117	1.3 67
43	On the design parameters of flip-chip PBGA package assembly for optimum solder ball reliability. <i>IEEE Transactions on Components and Packaging Technologies</i> , <b>2001</b> , 24, 300-307	24
42	Far-infrared fizeau interferometry. <i>Applied Optics</i> , <b>2001</b> , 40, 4981-7	1.7 14
41	Micro-Mechanical Deformation Analysis of Surface Laminar Circuit in Organic Flip-Chip Package: An Experimental Study. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , <b>2000</b> , 122, 294-300	2 22
40	Warpage Measurement on Dielectric Rough Surfaces of Microelectronics Devices by Far Infrared Fizeau Interferometry <sup>1</sup> . <i>Journal of Electronic Packaging, Transactions of the ASME</i> , <b>2000</b> , 122, 227-232	2 22
39	Moiré Interferometry <b>2000</b> , 375-389	3
38	Moiré Methods for Engineering and Science [Moiré Interferometry and Shadow Moiré] <b>2000</b> , 151-196	21
37	MECHANICAL FRINGE SHIFTING IN MOIRE INTERFEROMETRY. <i>Experimental Techniques</i> , <b>1999</b> , 23, 16-19	1.4 1
36	Development of real time/variable sensitivity warpage measurement technique and its application to plastic ball grid array package. <i>IEEE Transactions on Electronics Packaging Manufacturing</i> , <b>1999</b> , 22, 63-70	29
35	Recent advancements of moiré and microscopic moiré interferometry for thermal deformation analyses of microelectronics devices. <i>Experimental Mechanics</i> , <b>1998</b> , 38, 278-288	2.6 47
34	Study of Residual Stress Distribution by a Combined Method of Moiré Interferometry and Incremental Hole Drilling, Part I: Theory. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>1998</b> , 65, 837-843	2.7 55

33	Study of Residual Stress Distribution by a Combined Method of Moiré Interferometry and Incremental Hole Drilling, Part II: Implementation. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>1998</b> , 65, 844-850	2.7	37
32	Whole-field Displacement Measurement Techniques for Thermal Deformation Analyses of Electronic Packages. <i>Materials Research Society Symposia Proceedings</i> , <b>1998</b> , 515, 167		1
31	Recent Advancements of Moire and Microscopic Moire Interferometry for Thermal Deformation Analyses of Microelectronics Devices. <i>Experimental Mechanics</i> , <b>1998</b> , 38, 278-288	2.6	60
30			
29	Deformation Mechanism of Two-Phase Solder Column Interconnections Under Highly Accelerated Thermal Cycling Condition: An Experimental Study. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , <b>1997</b> , 119, 189-196	2	26
28	Verification of Numerical Models Used in Microelectronics Packaging Design by Interferometric Displacement Measurement Methods. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , <b>1996</b> , 118, 157-163	2	40
27	Isochromatic fringe sharpening and interpolation along an isoclinic countour, with application to fracture mechanics. <i>Experimental Mechanics</i> , <b>1996</b> , 36, 305-311	2.6	
26	Micromechanical deformation analysis of beta alloy titanium in elastic and elastic/plastic tension. <i>Experimental Mechanics</i> , <b>1996</b> , 36, 120-126	2.6	8
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24	Determination of an effective coefficient of thermal expansion of electronic packaging components: a whole-field approach. <i>IEEE Transactions on Components and Packaging Technologies</i> , <b>1996</b> , 19, 240-247		37
23	Thermal Deformation Analysis of Various Electronic Packaging Products by Moiré and Microscopic Moiré Interferometry. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , <b>1995</b> , 117, 185-191	2	90
22	A compact, robust and versatile moiré interferometer. <i>Optics and Lasers in Engineering</i> , <b>1995</b> , 23, 29-40	4.6	10
21	Thermal Stresses in a Bimaterial Joint: An Experimental Analysis. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>1994</b> , 61, 192-198	2.7	30
20	ISOCHROMATIC FRINGE SHARPENING AND MULTIPLICATION. <i>Experimental Techniques</i> , <b>1994</b> , 18, 11-13	1.4	2
19	Thermal Stresses Near the Interface of a Bimaterial Joint. <i>Mechanical Engineering Series</i> , <b>1994</b> , 293-312	0.3	1
18	Textile Composites. <i>Mechanical Engineering Series</i> , <b>1994</b> , 313-329	0.3	
17	Laminated Composites in Compression: Free-edge Effects. <i>Mechanical Engineering Series</i> , <b>1994</b> , 273-292	0.3	
16	High Sensitivity Moiré <i>Mechanical Engineering Series</i> , <b>1994</b> ,	0.3	325

15	Moiré Interferometry. <i>Mechanical Engineering Series</i> , <b>1994</b> , 135-226	0.3	13
14	Microscopic Moiré Interferometry: Very High Sensitivity. <i>Mechanical Engineering Series</i> , <b>1994</b> , 227-255	0.3	2
13	Geometric moiré methods with enhanced sensitivity by optical/digital fringe multiplication. <i>Experimental Mechanics</i> , <b>1993</b> , 33, 195-200	2.6	8
12	Interferometric methods with enhanced sensitivity by optical/digital fringe multiplication. <i>Applied Optics</i> , <b>1993</b> , 32, 4713-8	1.7	28
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10	Higher sensitivity moiré interferometry for micromechanics studies. <i>Optical Engineering</i> , <b>1992</b> , 31, 1517	1.1	51
9	Immersion interferometer for microscopic moiré interferometry. <i>Experimental Mechanics</i> , <b>1992</b> , 32, 38-41	2.6	50
8	A localized hybrid method of stress analysis: A combination of moiré interferometry and FEM. <i>Experimental Mechanics</i> , <b>1990</b> , 30, 195-200	2.6	28
7	Real-time warpage measurement of electronic components with variable sensitivity		5
6			1
5	Non-linear finite element analysis for electronic packages subjected to combined hygroscopic and thermo-mechanical stresses		3
4	A strain range based model for life assessment of Pb-free SAC solder interconnects		15
3			2
2	Bottom leaded plastic (BLP) package: a new design with enhanced solder joint reliability		1
1	Measurement of effective cure shrinkage of epoxy-based molding compound by fiber Bragg grating sensor using two-stage curing process. <i>Journal of Applied Polymer Science</i> , 51620	2.9	2