

# Hanqing Jiang

## List of Publications by Year in descending order

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142  
papers

11,960  
citations

38742

50  
h-index

25787

108  
g-index

143  
all docs

143  
docs citations

143  
times ranked

11764  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Stretchable Form of Single-Crystal Silicon for High-Performance Electronics on Rubber Substrates. <i>Science</i> , 2006, 311, 208-212.	12.6	1,531
2	Controlled buckling of semiconductor nanoribbons for stretchable electronics. <i>Nature Nanotechnology</i> , 2006, 1, 201-207.	31.5	817
3	Stretchable Supercapacitors Based on Buckled Single-Walled Carbon Nanotube Macrofilms. <i>Advanced Materials</i> , 2009, 21, 4793-4797.	21.0	627
4	Finite deformation mechanics in buckled thin films on compliant supports. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 15607-15612.	7.1	626
5	Origami lithium-ion batteries. <i>Nature Communications</i> , 2014, 5, 3140.	12.8	466
6	Biaxially Stretchable "Wavy" Silicon Nanomembranes. <i>Nano Letters</i> , 2007, 7, 1655-1663.	9.1	356
7	Stress-driven lithium dendrite growth mechanism and dendrite mitigation by electroplating on soft substrates. <i>Nature Energy</i> , 2018, 3, 227-235.	39.5	353
8	A cohesive law for carbon nanotube/polymer interfaces based on the van der Waals force. <i>Journal of the Mechanics and Physics of Solids</i> , 2006, 54, 2436-2452.	4.8	308
9	Thermal Expansion of Single Wall Carbon Nanotubes. <i>Journal of Engineering Materials and Technology</i> , <i>Transactions of the ASME</i> , 2004, 126, 265-270.	1.4	281
10	Origami-inspired, on-demand deployable and collapsible mechanical metamaterials with tunable stiffness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2032-2037.	7.1	274
11	Origami based Mechanical Metamaterials. <i>Scientific Reports</i> , 2014, 4, 5979.	3.3	257
12	The atomic-scale finite element method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004, 193, 1849-1864.	6.6	243
13	Kirigami-based stretchable lithium-ion batteries. <i>Scientific Reports</i> , 2015, 5, 10988.	3.3	240
14	Buckling of a stiff thin film on a compliant substrate in large deformation. <i>International Journal of Solids and Structures</i> , 2008, 45, 3107-3121.	2.7	234
15	Folding Paper-Based Lithium-Ion Batteries for Higher Areal Energy Densities. <i>Nano Letters</i> , 2013, 13, 4969-4974.	9.1	218
16	Artificial phototropism for omnidirectional tracking and harvesting of light. <i>Nature Nanotechnology</i> , 2019, 14, 1048-1055.	31.5	191
17	Molecular Scale Buckling Mechanics in Individual Aligned Single-Wall Carbon Nanotubes on Elastomeric Substrates. <i>Nano Letters</i> , 2008, 8, 124-130.	9.1	180
18	Electronically Programmable, Reversible Shape Change in Two- and Three-Dimensional Hydrogel Structures. <i>Advanced Materials</i> , 2013, 25, 1541-1546.	21.0	169

#	ARTICLE	IF	CITATIONS
19	Silicon Thin Films as Anodes for High-Performance Lithium-Ion Batteries with Effective Stress Relaxation. <i>Advanced Energy Materials</i> , 2012, 2, 68-73.	19.5	168
20	The effect of nanotube radius on the constitutive model for carbon nanotubes. <i>Computational Materials Science</i> , 2003, 28, 429-442.	3.0	160
21	Intrinsic Energy Loss Mechanisms in a Cantilevered Carbon Nanotube Beam Oscillator. <i>Physical Review Letters</i> , 2004, 93, 185501.	7.8	149
22	An analytical study of two-dimensional buckling of thin films on compliant substrates. <i>Journal of Applied Physics</i> , 2008, 103, .	2.5	133
23	An atomistic-based continuum theory for carbon nanotubes: analysis of fracture nucleation. <i>Journal of the Mechanics and Physics of Solids</i> , 2004, 52, 977-998.	4.8	126
24	Atomic-scale finite element method in multiscale computation with applications to carbon nanotubes. <i>Physical Review B</i> , 2005, 72, .	3.2	118
25	Mechanics of precisely controlled thin film buckling on elastomeric substrate. <i>Applied Physics Letters</i> , 2007, 90, 133119.	3.3	113
26	A stretchable temperature sensor based on elastically buckled thin film devices on elastomeric substrates. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	111
27	Finite width effect of thin-films buckling on compliant substrate: Experimental and theoretical studies. <i>Journal of the Mechanics and Physics of Solids</i> , 2008, 56, 2585-2598.	4.8	110
28	A finite element method for transient analysis of concurrent large deformation and mass transport in gels. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	110
29	Origami-enabled deformable silicon solar cells. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	108
30	Tunable optical gratings based on buckled nanoscale thin films on transparent elastomeric substrates. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	107
31	Indenter tip radius effect on the Nix-Gao relation in micro- and nanoindentation hardness experiments. <i>Journal of Materials Research</i> , 2004, 19, 3423-3434.	2.6	102
32	In situ stiffness manipulation using elegant curved origami. <i>Science Advances</i> , 2020, 6, .	10.3	90
33	The influence of mechanical deformation on the electrical properties of single wall carbon nanotubes. <i>Journal of the Mechanics and Physics of Solids</i> , 2004, 52, 1-26.	4.8	86
34	Evaluation of Micro-Pillar Compression Tests for Accurate Determination of Elastic-Plastic Constitutive Relations. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2012, 79, .	2.2	82
35	Stiffness and Thickness of Boron-Nitride Nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 3774-3780.	0.9	81
36	Food-Materials-Based Edible Supercapacitors. <i>Advanced Materials Technologies</i> , 2016, 1, 1600059.	5.8	81

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37	A brief review of dynamic mechanical metamaterials for mechanical energy manipulation. <i>Materials Today</i> , 2021, 44, 168-193.	14.2	80
38	Mechanical metamaterials based on origami and kirigami. <i>Applied Physics Reviews</i> , 2021, 8, .	11.3	80
39	Forming wrinkled stiff films on polymeric substrates at room temperature for stretchable interconnects applications. <i>Thin Solid Films</i> , 2010, 519, 818-822.	1.8	79
40	A Finite-Temperature Continuum Theory Based on Interatomic Potentials. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2005, 127, 408-416.	1.4	77
41	Printable, Flexible, and Stretchable Forms of Ultrananocrystalline Diamond with Applications in Thermal Management. <i>Advanced Materials</i> , 2008, 20, 2171-2176.	21.0	76
42	Conductive and Elastic 3D Helical Fibers for Use in Washable and Wearable Electronics. <i>Advanced Materials</i> , 2020, 32, e1907495.	21.0	72
43	Defect nucleation in carbon nanotubes under tension and torsion: Stone-Wales transformation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004, 193, 3419-3429.	6.6	68
44	Post-buckling analysis for the precisely controlled buckling of thin film encapsulated by elastomeric substrates. <i>International Journal of Solids and Structures</i> , 2008, 45, 2014-2023.	2.7	65
45	A machine learning-based method to design modular metamaterials. <i>Extreme Mechanics Letters</i> , 2020, 36, 100657.	4.1	65
46	Unique Aspects of a Shape Memory Polymer As the Substrate for Surface Wrinkling. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 598-603.	8.0	62
47	Food-Based Edible and Nutritive Electronics. <i>Advanced Materials Technologies</i> , 2017, 2, 1700181.	5.8	61
48	Mechanics of buckled carbon nanotubes on elastomeric substrates. <i>Journal of Applied Physics</i> , 2008, 104, 033543.	2.5	60
49	The Effect of Crystallographic Orientation on the Mechanical Behavior of Cu <sub>6</sub> Sn <sub>5</sub> by Micropillar Compression Testing. <i>Journal of Electronic Materials</i> , 2012, 41, 2083-2088.	2.2	53
50	Micro-strain sensing using wrinkled stiff thin films on soft substrates as tunable optical grating. <i>Optics Express</i> , 2013, 21, 11994.	3.4	53
51	Mechanics of Microtubule Buckling Supported by Cytoplasm. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2008, 75, .	2.2	52
52	Prescribed Pattern Transformation in Swelling Gel Tubes by Elastic Instability. <i>Physical Review Letters</i> , 2012, 108, 214304.	7.8	51
53	Rate-dependent behavior of Sn alloy-Cu couples: Effects of microstructure and composition on mechanical shock resistance. <i>Acta Materialia</i> , 2012, 60, 4336-4348.	7.9	51
54	Archimedean spiral design for extremely stretchable interconnects. <i>Extreme Mechanics Letters</i> , 2014, 1, 29-34.	4.1	51

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55	Multiphysics coupled computational model for commercialized Si/graphite composite anode. Journal of Power Sources, 2020, 450, 227667.	7.8	49
56	Failure mechanisms of 2D silicon film anodes: <i>in situ</i> observations and simulations on crack evolution. Chemical Communications, 2018, 54, 3997-4000.	4.1	47
57	The effect of thin film/substrate radii on the Stoney formula for thin film/substrate subjected to nonuniform axisymmetric misfit strain and temperature. Journal of Mechanics of Materials and Structures, 2006, 1, 1041-1053.	0.6	46
58	Multiscale Analysis of Fracture of Carbon Nanotubes Embedded in Composites. International Journal of Fracture, 2005, 134, 369-386.	2.2	42
59	Deformation and bifurcation analysis of boron-nitride nanotubes. International Journal of Mechanical Sciences, 2006, 48, 1197-1207.	6.7	40
60	Postbuckling of carbon nanotubes by atomic-scale finite element. Journal of Applied Physics, 2006, 99, 124308.	2.5	40
61	Bending buckling of single-walled carbon nanotubes by atomic-scale finite element. Composites Part B: Engineering, 2008, 39, 202-208.	12.0	40
62	A thermodynamic model of physical gels. Journal of the Mechanics and Physics of Solids, 2010, 58, 2083-2099.	4.8	37
63	Edible and Nutritive Electronics: Materials, Fabrications, Components, and Applications. Advanced Materials Technologies, 2020, 5, 2000100.	5.8	37
64	Pre-patterned ZnO nanoribbons on soft substrates for stretchable energy harvesting applications. Journal of Applied Physics, 2013, 113, .	2.5	34
65	Microscale Silicon Origami. Small, 2016, 12, 5401-5406.	10.0	34
66	The finite deformation theory of Taylor-based nonlocal plasticity. International Journal of Plasticity, 2004, 20, 831-839.	8.8	33
67	A finite element simulation on transient large deformation and mass diffusion in electrodes for lithium ion batteries. Modelling and Simulation in Materials Science and Engineering, 2013, 21, 074007.	2.0	33
68	A Simultaneous Multiscale and Multiphysics Model and Numerical Implementation of a Core-Shell Model for Lithium-Ion Full-Cell Batteries. Journal of Applied Mechanics, Transactions ASME, 2019, 86, .	2.2	33
69	Mechanical metamaterials for full-band mechanical wave shielding. Applied Materials Today, 2020, 20, 100671.	4.3	32
70	Printing Stretchable Spiral Interconnects Using Reactive Ink Chemistries. ACS Applied Materials & Interfaces, 2016, 8, 12594-12598.	8.0	30
71	Data-driven automated discovery of variational laws hidden in physical systems. Journal of the Mechanics and Physics of Solids, 2020, 137, 103871.	4.8	30
72	Stone's Wales transformation: Precursor of fracture in carbon nanotubes. International Journal of Mechanical Sciences, 2006, 48, 1464-1470.	6.7	29

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73	Nanofiber-based Matrimid organogel membranes for battery separator. <i>Journal of Membrane Science</i> , 2018, 546, 158-164.	8.2	29
74	Development of visible-light responsive and mechanically enhanced "smart" UCST interpenetrating network hydrogels. <i>Soft Matter</i> , 2018, 14, 151-160.	2.7	29
75	Atomistic-based continuum constitutive relation for microtubules: elastic modulus prediction. <i>Computational Mechanics</i> , 2008, 42, 607-618.	4.0	28
76	Ron Resch Origami Pattern Inspired Energy Absorption Structures. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2019, 86, .	2.2	28
77	Stone's Wales transformation in boron nitride nanotubes. <i>Scripta Materialia</i> , 2007, 57, 571-574.	5.2	27
78	Laser dynamic forming of functional materials laminated composites on patterned three-dimensional surfaces with applications on flexible microelectromechanical systems. <i>Applied Physics Letters</i> , 2009, 95, 091108.	3.3	27
79	Quantifying Electrochemical Reactions and Properties of Amorphous Silicon in a Conventional Lithium-Ion Battery Configuration. <i>Chemistry of Materials</i> , 2017, 29, 5831-5840.	6.7	26
80	Rate dependent stress-stretch relation of dielectric elastomers subjected to pure shear like loading and electric field. <i>Acta Mechanica Solida Sinica</i> , 2012, 25, 542-549.	1.9	25
81	Simulation of the Transient Behavior of Gels Based on an Analogy Between Diffusion and Heat Transfer. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013, 80, .	2.2	25
82	Mitigating mechanical failure of crystalline silicon electrodes for lithium batteries by morphological design. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 17718-17728.	2.8	25
83	Controlled Carbon Nanotube Junctions Self-Assembled from Graphene Nanoribbons. <i>Small</i> , 2009, 5, 2802-2806.	10.0	24
84	Lithium redistribution around the crack tip of lithium-ion battery electrodes. <i>Scripta Materialia</i> , 2019, 167, 11-15.	5.2	21
85	Critical Strain of Carbon Nanotubes: An Atomic-Scale Finite Element Study. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2007, 74, 347-351.	2.2	20
86	A robust polymer microcable structure for flexible devices. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	20
87	Visualizing Morphogenesis through Instability Formation in 4-D Printing. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 47468-47475.	8.0	20
88	Light-modulated liquid crystal elastomer actuator with multimodal shape morphing and multifunction. <i>Journal of Materials Chemistry C</i> , 2022, 10, 3796-3803.	5.5	20
89	Solvent-directed sol-gel assembly of 3-dimensional graphene-tented metal oxides and strong synergistic disparities in lithium storage. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4032-4043.	10.3	19
90	3D Programmable Metamaterials Based on Reconfigurable Mechanism Modules. <i>Advanced Functional Materials</i> , 2022, 32, 2109865.	14.9	19

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91	Thickness evolution of graphite-based cathodes in the dual ion batteries via in operando optical observation. <i>Journal of Energy Chemistry</i> , 2019, 29, 122-128.	12.9	18
92	Modeling Fracture of Sn-Rich (Pb-Free) Solder Joints Under Mechanical Shock Conditions. <i>Journal of Electronic Materials</i> , 2012, 41, 2089-2099.	2.2	17
93	Modular Design for Acoustic Metamaterials: Low-Frequency Noise Attenuation. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	17
94	Nonsinusoidal buckling of thin gold films on elastomeric substrates. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2009, 27, L9-L12.	2.1	15
95	Finite element simulation of swelling-induced crack healing in gels. <i>Soft Matter</i> , 2012, 8, 8107.	2.7	14
96	Thermoresponsiveness of Integrated Ultra-Thin Silicon with Poly( <i>N</i> -isopropylacrylamide) Hydrogels. <i>Macromolecular Rapid Communications</i> , 2011, 32, 820-824.	3.9	12
97	The effect of large deformation and material nonlinearity on gel indentation. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2012, 28, 1058-1067.	3.4	12
98	The Effect of Random Voids in the Modified Gurson Model. <i>Journal of Electronic Materials</i> , 2012, 41, 177-183.	2.2	12
99	Thermal and mechanical properties of poly( <i>N</i> -isopropylacrylamide)-based hydrogels as a function of porosity and medium change. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	12
100	Scalable nano-patterning of graphenes using laser shock. <i>Nanotechnology</i> , 2011, 22, 475303.	2.6	11
101	Design of origami fin for heat dissipation enhancement. <i>Applied Thermal Engineering</i> , 2018, 145, 674-684.	6.0	11
102	Stationary response probability density of nonlinear random vibrating systems: a data-driven method. <i>Nonlinear Dynamics</i> , 2020, 100, 2337-2352.	5.2	11
103	Determining the elastic modulus of thin films using a buckling-based method: computational study. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 175506.	2.8	10
104	Reprint of "Post-buckling analysis for the precisely controlled buckling of thin film encapsulated by elastomeric substrates" [In. <i>J. Solids Struct.</i> 45 (2008) 2014-2023]. <i>International Journal of Solids and Structures</i> , 2008, 45, 3858-3867.	2.7	9
105	Facile large-area photolithography of periodic sub-micron structures using a self-formed polymer mask. <i>Applied Physics Letters</i> , 2012, 100, 233503.	3.3	9
106	A facile, robust and versatile finite element implementation to study the time-dependent behaviors of responsive gels. <i>Extreme Mechanics Letters</i> , 2018, 22, 89-97.	4.1	9
107	Customizable and highly sensitive 3D micro-springs produced by two-photon polymerizations with improved post-treatment processes. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	9
108	Hybrid silicon-polymer platform for self-locking and self-deploying origami. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	8

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109	Random analysis on controlled buckling structure for energy harvesting. Applied Physics Letters, 2013, 102, .	3.3	8
110	Pyrrole-based poly(ionic liquids) as efficient stabilizers for formation of hollow multi-walled carbon nanotubes particles. Journal of Colloid and Interface Science, 2017, 504, 140-148.	9.4	8
111	Multiscale Modeling of the Interfacial Fracture Behavior in the Sn <sup>6+</sup> /Cu <sup>5+</sup> System. Journal of Computational and Theoretical Nanoscience, 2011, 8, 873-880.	0.4	7
112	Rapid identification of switched systems: A data-driven method in variational framework. Science China Technological Sciences, 2021, 64, 148-156.	4.0	7
113	Laser Shock-Induced Conformal Transferring of Functional Devices on 3-D Stretchable Substrates. Journal of Microelectromechanical Systems, 2015, 24, 414-421.	2.5	6
114	Controlled Morphology of Thin Film Silicon Integrated with Environmentally Responsive Hydrogels. Langmuir, 2013, 29, 6495-6501.	3.5	5
115	3D Helical Fibers: Conductive and Elastic 3D Helical Fibers for Use in Washable and Wearable Electronics (Adv. Mater. 10/2020). Advanced Materials, 2020, 32, 2070076.	21.0	5
116	EML webinar overview: Origami-based metamaterials. Extreme Mechanics Letters, 2022, 50, 101543.	4.1	4
117	Direct Integration of Functional Structures on 3-D Microscale Surfaces by Laser Dynamic Forming. Journal of Microelectromechanical Systems, 2013, 22, 1428-1437.	2.5	3
118	Experimental investigation on the mechanical buckling of one-dimensional Si nanoribbons with a thickness contrast. Thin Solid Films, 2017, 640, 33-37.	1.8	3
119	Phase-field modeling of chemo-mechanical relaxation effect on the fracture tolerance of a tin-based electrode. Mechanics of Materials, 2020, 148, 103502.	3.2	3
120	AI-Timoshenko: Automatedly Discovering Simplified Governing Equations for Applied Mechanics Problems From Simulated Data. Journal of Applied Mechanics, Transactions ASME, 2021, 88, .	2.2	3
121	Fracture analysis of facesheets in sandwich composites. Composites Part B: Engineering, 2004, 35, 551-556.	12.0	2
122	Modeling fracture in carbon nanotubes using a meshless atomic-scale finite-element method. Jom, 2008, 60, 50-55.	1.9	2
123	A Self-Consistent Approach for Necking Correction in Tensile Specimens With Rectangular Cross-Section Using a Novel Mirror Fixture. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 5058-5066.	2.2	2
124	High sensitivity in-plane strain measurement using a laser scanning technique. , 2014, , .		2
125	Two-dimensional (2D) in-plane strain mapping using a laser scanning technique on the cross-section of a microelectronics package. , 2015, , .		2
126	Inkjet Printed Spiral Stretchable Electronics Using Reactive Ink Chemistries. MRS Advances, 2016, 1, 3465-3470.	0.9	2



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127	An Alternative Decomposition of the Strain Gradient Tensor. Journal of Applied Mechanics, Transactions ASME, 2002, 69, 139-141.	2.2	1
128	A Void Growth and a Cyclic Model in Ductile Material Using Mechanism-Based Strain Gradient Crystal Plasticity Theory. , 2007, , 29.		1
129	A mechanically stretchable temperature sensor based on buckled thin film devices on an elastomeric substrate. , 2010, , .		1
130	In situ monitoring the internal of lithium ion batteries. Acta Mechanica Sinica/Lixue Xuebao, 2021, 37, 902.	3.4	1
131	Origami-enabled deformable silicon solar cells. , 0, .		1
132	Theoretical Modeling on Mechanical-Electrical Coupling of Carbon Nanotubes. Journal of Computational and Theoretical Nanoscience, 2008, 5, 449-463.	0.4	1
133	Carbon-nanotube junctions: Small 24/2009. Small, 2009, 5, n/a-n/a.	10.0	0
134	Extremely Stretchable Supercapacitors Based on Buckled Single-Walled Carbon Nanotube Macro-Films. , 2009, , .		0
135	Mechanics of Stiff Thin Films of Controlled Wavy Geometry on Compliant Substrates for Stretchable Electronics. , 2010, , 275-291.		0
136	&lt;l&gt;A Special Issue on&lt;l&gt; Multiscale and Multiphysics Simulations for Energy Applications. Journal of Computational and Theoretical Nanoscience, 2011, 8, 801-802.	0.4	0
137	Molecular Dynamic Simulations of Forming Graphene Nanoribbons from Single-Wall Carbon Nanotubes. Journal of Computational and Theoretical Nanoscience, 2011, 8, 717-721.	0.4	0
138	Macromol. Rapid Commun. 11/2011. Macromolecular Rapid Communications, 2011, 32, .	3.9	0
139	Laser Shock Induced Nano-Patterning of Graphene. , 2012, , .		0
140	Electronically Programmable, Reversible Shape Change in Two- and Three-Dimensional Hydrogel Structures (Adv. Mater. 11/2013). Advanced Materials, 2013, 25, 1540-1540.	21.0	0
141	Foreword: Special section on soft electronics. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2015, 5, 1199-1200.	2.5	0
142	2D Grating Pitch Mapping of a through Silicon Via (TSV) and Solder Ball Interconnect Region Using Laser Diffraction: IEEE Electronic Components and Technology Conference, 2016. , 2016, , .		0