Yong An Huang

List of Publications by Year
in descending order

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215	25,027	26610 56	6831 155
papers	citations	h-index	g-index

219	219	219	26410
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Materials and Mechanics for Stretchable Electronics. Science, 2010, 327, 1603-1607.	6.0	4,135
2	Epidermal Electronics. Science, 2011, 333, 838-843.	6.0	3,944
3	High-performance transition metalâ€“doped Pt ₃ Ni octahedra for oxygen reduction reaction. Science, 2015, 348, 1230-1234.	6.0	1,623
4	A Physically Transient Form of Silicon Electronics. Science, 2012, 337, 1640-1644.	6.0	1,085
5	Injectable, Cellular-Scale Optoelectronics with Applications for Wireless Optogenetics. Science, 2013, 340, 211-216.	6.0	1,010
6	A soft, wearable microfluidic device for the capture, storage, and colorimetric sensing of sweat. Science Translational Medicine, 2016, 8, 366ra165.	5.8	933
7	Conformable amplified lead zirconate titanate sensors with enhanced piezoelectric response for cutaneous pressure monitoring. Nature Communications, 2014, 5, 4496.	5.8	757
8	Printed Assemblies of Inorganic Light-Emitting Diodes for Deformable and Semitransparent Displays. Science, 2009, 325, 977-981.	6.0	748
9	Assembly of micro/nanomaterials into complex, three-dimensional architectures by compressive buckling. Science, 2015, 347, 154-159.	6.0	745
10	Finite deformation mechanics in buckled thin films on compliant supports. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 15607-15612.	3.3	626
11	Energy Harvesters for Wearable and Stretchable Electronics: From Flexibility to Stretchability. Advanced Materials, 2016, 28, 9881-9919.	11.1	407
12	Microstructured elastomeric surfaces with reversible adhesion and examples of their use in deterministic assembly by transfer printing. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17095-17100.	3.3	356
13	A Conformal, Bio-Interfaced Class of Silicon Electronics for Mapping Cardiac Electrophysiology. Science Translational Medicine, 2010, 2, 24ra22.	5.8	344
14	Freestanding Graphene Paper Supported Three-Dimensional Porous Grapheneâ€“Polyaniline Nanocomposite Synthesized by Inkjet Printing and in Flexible All-Solid-State Supercapacitor. ACS Applied Materials & Interfaces, 2014, 6, 16312-16319.	4.0	312
15	Thermal Expansion of Single Wall Carbon Nanotubes. Journal of Engineering Materials and Technology, Transactions of the ASME, 2004, 126, 265-270.	0.8	281
16	Inkjet printing for flexible electronics: Materials, processes and equipments. Science Bulletin, 2010, 55, 3383-3407.	1.7	249
17	Buckling of a stiff thin film on a compliant substrate in large deformation. International Journal of Solids and Structures, 2008, 45, 3107-3121.	1.3	234
18	A curvy, stretchy future for electronics. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 10875-10876.	3.3	213

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19	Electronic sensor and actuator webs for large-area complex geometry cardiac mapping and therapy. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19910-19915.	3.3	209
20	A Study of Microindentation Hardness Tests by Mechanism-based Strain Gradient Plasticity. Journal of Materials Research, 2000, 15, 1786-1796.	1.2	206
21	Electrohydrodynamic direct-writing. Nanoscale, 2013, 5, 12007.	2.8	202
22	Adaptive optoelectronic camouflage systems with designs inspired by cephalopod skins. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12998-13003.	3.3	197
23	Modeling Plasticity at the Micrometer Scale. Die Naturwissenschaften, 1999, 86, 507-515.	0.6	196
24	Hyper-stretchable self-powered sensors based on electrohydrodynamically printed, self-similar piezoelectric nano/microfibers. Nano Energy, 2017, 40, 432-439.	8.2	150
25	Mechanics of noncoplanar mesh design for stretchable electronic circuits. Journal of Applied Physics, 2009, 105, .	1.1	143
26	Inâ€Plane Deformation Mechanics for Highly Stretchable Electronics. Advanced Materials, 2017, 29, 1604989.	11.1	141
27	Assembly and applications of 3D conformal electronics on curvilinear surfaces. Materials Horizons, 2019, 6, 642-683.	6.4	141
28	An analytical study of two-dimensional buckling of thin films on compliant substrates. Journal of Applied Physics, 2008, 103, .	1.1	133
29	Low-cost, Î¼m-thick, tape-free electronic tattoo sensors with minimized motion and sweat artifacts. Npj Flexible Electronics, 2018, 2, .	5.1	132
30	Non-wrinkled, highly stretchable piezoelectric devices by electrohydrodynamic direct-writing. Nanoscale, 2014, 6, 3289.	2.8	129
31	Largeâ€Scale Directâ€Writing of Aligned Nanofibers for Flexible Electronics. Small, 2018, 14, e1703521.	5.2	126
32	Fracture Nucleation in Single-Wall Carbon Nanotubes Under Tension: A Continuum Analysis Incorporating Interatomic Potentials. Journal of Applied Mechanics, Transactions ASME, 2002, 69, 454-458.	1.1	111
33	On the Stoney Formula for a Thin Film/Substrate System With Nonuniform Substrate Thickness. Journal of Applied Mechanics, Transactions ASME, 2007, 74, 1276-1281.	1.1	108
34	Thermal Stresses in Layered Electronic Assemblies. Journal of Electronic Packaging, Transactions of the ASME, 1997, 119, 127-132.	1.2	106
35	Mechanics of stretchable inorganic electronic materials. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2009, 27, 1107-1125.	0.9	105
36	Highly sensitive, temperature-dependent gas sensor based on hierarchical ZnO nanorod arrays. Journal of Materials Chemistry C, 2015, 3, 11397-11405.	2.7	105

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37	Indenter tip radius effect on the Nixâ€“Gao relation in micro- and nanoindentation hardness experiments. Journal of Materials Research, 2004, 19, 3423-3434.	1.2	102
38	Collapse of stamps for soft lithography due to interfacial adhesion. Applied Physics Letters, 2005, 86, 154106.	1.5	101
39	Electrically compensated, tattoo-like electrodes for epidermal electrophysiology at scale. Science Advances, 2020, 6, .	4.7	99
40	Electrohydrodynamically Printed Highâ€Resolution Fullâ€Color Hybrid Perovskites. Advanced Functional Materials, 2019, 29, 1903294.	7.8	97
41	The Influence of Indenter Tip Radius on the Micro-Indentation Hardness. Journal of Engineering Materials and Technology, Transactions of the ASME, 2002, 124, 371-379.	0.8	96
42	Laser Transfer, Printing, and Assembly Techniques for Flexible Electronics. Advanced Electronic Materials, 2019, 5, 1800900.	2.6	91
43	Microfluidic serpentine antennas with designed mechanical tunability. Lab on A Chip, 2014, 14, 4205-4212.	3.1	84
44	Elasticity of Fractal Inspired Interconnects. Small, 2015, 11, 367-373.	5.2	84
45	Stretchable and compressible thin films of stiff materials on compliant wavy substrates. Applied Physics Letters, 2008, 93, 013109.	1.5	80
46	Continuously Tunable and Oriented Nanofiber Direct-Written by Mechano-Electrospinning. Materials and Manufacturing Processes, 2012, 27, 1318-1323.	2.7	78
47	A Finite-Temperature Continuum Theory Based on Interatomic Potentials. Journal of Engineering Materials and Technology, Transactions of the ASME, 2005, 127, 408-416.	0.8	77
48	Stretchable, Highly Durable Ternary Nanocomposite Strain Sensor for Structural Health Monitoring of Flexible Aircraft. Sensors, 2017, 17, 2677.	2.1	77
49	Binding energy of parallel carbon nanotubes. Applied Physics Letters, 2003, 83, 3570-3571.	1.5	71
50	Versatile, kinetically controlled, high precision electrohydrodynamic writing of micro/nanofibers. Scientific Reports, 2014, 4, 5949.	1.6	70
51	Climatology of the nighttime equatorial thermospheric winds and temperatures over Brazil near solar minimum. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	67
52	Self-similar design for stretchable wireless LC strain sensors. Sensors and Actuators A: Physical, 2015, 224, 36-42.	2.0	66
53	Fracture analysis in the conventional theory of mechanism-based strain gradient (CMSG) plasticity. International Journal of Fracture, 2004, 129, 199-220.	1.1	65
54	Highâ€Resolution, Flexible, and Fullâ€Color Perovskite Image Photodetector via Electrohydrodynamic Printing of Ionicâ€Liquidâ€Based Ink. Advanced Functional Materials, 2021, 31, 2100857.	7.8	61

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55	Mechanics of buckled carbon nanotubes on elastomeric substrates. Journal of Applied Physics, 2008, 104, 033543.	1.1	60
56	Mechanism for stamp collapse in soft lithography. Applied Physics Letters, 2005, 87, 251925.	1.5	59
57	Mechanics of nanowire/nanotube in-surface buckling on elastomeric substrates. Nanotechnology, 2010, 21, 085708.	1.3	56
58	A general solution for the two-dimensional stress analysis of balanced and unbalanced adhesively bonded joints. International Journal of Adhesion and Adhesives, 2014, 54, 112-123.	1.4	56
59	Wearable humanâ€“machine interface based on PVDF piezoelectric sensor. Transactions of the Institute of Measurement and Control, 2017, 39, 398-403.	1.1	56
60	The boundary-layer effect on the crack tip field in mechanism-based strain gradient plasticity. International Journal of Fracture, 2001, 112, 23-41.	1.1	55
61	Soft humanâ€“machine interfaces: design, sensing and stimulation. International Journal of Intelligent Robotics and Applications, 2018, 2, 313-338.	1.6	55
62	Bio-inspired, intelligent flexible sensing skin for multifunctional flying perception. Nano Energy, 2021, 90, 106550.	8.2	55
63	Intersonic Crack Propagationâ€”Part I: The Fundamental Solution. Journal of Applied Mechanics, Transactions ASME, 2001, 68, 169-175.	1.1	52
64	Controllable self-organization of colloid microarrays based on finite length effects of electrospun ribbons. Soft Matter, 2012, 8, 8302.	1.2	49
65	Design and Development of a Spherical Motor for Conformal Printing of Curved Electronics. IEEE Transactions on Industrial Electronics, 2018, 65, 9190-9200.	5.2	49
66	3D Interfacing between Soft Electronic Tools and Complex Biological Tissues. Advanced Materials, 2021, 33, e2004425.	11.1	48
67	Weld quality monitoring research in small scale resistance spot welding by dynamic resistance and neural network. Measurement: Journal of the International Measurement Confederation, 2017, 99, 120-127.	2.5	47
68	Fabrication Techniques for Curved Electronics on Arbitrary Surfaces. Advanced Materials Technologies, 2020, 5, 2000093.	3.0	47
69	An analytical model of strain isolation for stretchable and flexible electronics. Applied Physics Letters, 2011, 98, .	1.5	45
70	Highâ€Resolution Pixelated Light Emitting Diodes Based on Electrohydrodynamic Printing and Coffeeâ€Ringâ€Free Quantum Dot Film. Advanced Materials Technologies, 2020, 5, 2000401.	3.0	44
71	A patterned ZnO nanorod array/gas sensor fabricated by mechanoelectrospinning-assisted selective growth. Chemical Communications, 2015, 51, 3117-3120.	2.2	41
72	Roll-to-Roll Processing of Flexible Heterogeneous Electronics With Low Interfacial Residual Stress. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2011, 1, 1368-1377.	1.4	40

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73	Impact Monitoring for Aircraft Smart Composite Skins Based on a Lightweight Sensor Network and Characteristic Digital Sequences. Sensors, 2018, 18, 2218.	2.1	40
74	Electrohydrodynamically Printed, Flexible Energy Harvester Using Inâ€...Situ Poled Piezoelectric Nanofibers. Energy Technology, 2015, 3, 351-358.	1.8	38
75	Coffee ring elimination and crystalline control of electrohydrodynamically printed high-viscosity perovskites. Journal of Materials Chemistry C, 2019, 7, 14867-14873.	2.7	38
76	Analysis of interfacial peeling in IC chip pick-up process. Journal of Applied Physics, 2011, 110, .	1.1	37
77	Aligned hierarchical Ag/ZnO nano-heterostructure arrays via electrohydrodynamic nanowire template for enhanced gas-sensing properties. Scientific Reports, 2017, 7, 12206.	1.6	37
78	Helix Electrohydrodynamic Printing of Highly Aligned Serpentine Micro/Nanofibers. Polymers, 2017, 9, 434.	2.0	37
79	A comparison of two types of neural network for weld quality prediction in small scale resistance spot welding. Mechanical Systems and Signal Processing, 2017, 93, 634-644.	4.4	36
80	Flexible small-channel thin-film transistors by electrohydrodynamic lithography. Nanoscale, 2017, 9, 19050-19057.	2.8	36
81	Highâ€Performance, Micrometer Thick/Conformal, Transparent Metalâ€Network Electrodes for Flexible and Curved Electronic Devices. Advanced Materials Technologies, 2018, 3, 1800155.	3.0	36
82	All-weather, natural silent speech recognition via machine-learning-assisted tattoo-like electronics. Npj Flexible Electronics, 2021, 5, .	5.1	36
83	Continuum modeling of van der Waals interactions between carbon nanotube walls. Applied Physics Letters, 2009, 94, .	1.5	35
84	Theoretical and experimental studies of laser lift-off of nonwrinkled ultrathin polyimide film for flexible electronics. Applied Surface Science, 2020, 499, 143910.	3.1	35
85	Offâ€fault tensile cracks: A link between geological fault observations, lab experiments, and dynamic rupture models. Journal of Geophysical Research, 2012, 117, .	3.3	34
86	A Viscoelastic Model for the Rate Effect in Transfer Printing. Journal of Applied Mechanics, Transactions ASME, 2013, 80, .	1.1	34
87	Experimental Study of the Influence of Ink Properties and Process Parameters on Ejection Volume in Electrohydrodynamic Jet Printing. Micromachines, 2018, 9, 522.	1.4	34
88	Selfâ€Healing Kirigami Assembly Strategy for Conformal Electronics. Advanced Functional Materials, 2022, 32, 2109214.	7.8	34
89	The Conformal Design of an Island-Bridge Structure on a Non-Developable Surface for Stretchable Electronics. Micromachines, 2018, 9, 392.	1.4	33
90	Flexible PZT-Integrated, Bilateral Sensors via Transfer-Free Laser Lift-Off for Multimodal Measurements. ACS Applied Materials & Interfaces, 2020, 12, 37354-37362.	4.0	32

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91	Theoretical and experimental study of 2D conformability of stretchable electronics laminated onto skin. Science China Technological Sciences, 2017, 60, 1415-1422.	2.0	31
92	Competing Fracture Modeling of Thin Chip Pick-Up Process. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2012, 2, 1217-1225.	1.4	30
93	Experimental study of laser lift-off of ultra-thin polyimide film for flexible electronics. Science China Technological Sciences, 2019, 62, 233-242.	2.0	30
94	Template-Free Construction of Tin Oxide Porous Hollow Microspheres for Room-Temperature Gas Sensors. ACS Applied Materials & Interfaces, 2021, 13, 25111-25120.	4.0	30
95	A Snakeskinâ€Inspired, Softâ€Hinge Kirigami Metamaterial for Selfâ€Adaptive Conformal Electronic Armor. Advanced Materials, 2022, 34, .	11.1	29
96	Addressable multi-nozzle electrohydrodynamic jet printing with high consistency by multi-level voltage method. AIP Advances, 2015, 5, .	0.6	28
97	Flexible smart sensing skin for â€œFly-by-Feelâ€•morphing aircraft. Science China Technological Sciences, 2022, 65, 1-29.	2.0	28
98	Tunable Peeling Technique and Mechanism of Thin Chip From Compliant Adhesive Tapes. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2014, 4, 560-568.	1.4	27
99	Tunable bead-on-string microstructures fabricated by mechano-electrospinning. Journal Physics D: Applied Physics, 2012, 45, 405301.	1.3	26
100	High-rate roll-to-roll stack and lamination of multilayer structured membrane electrode assembly. Journal of Manufacturing Processes, 2016, 23, 175-182.	2.8	26
101	Ultra-Stretchable Piezoelectric Nanogenerators via Large-Scale Aligned Fractal Inspired Micro/Nanofibers. Polymers, 2017, 9, 714.	2.0	26
102	Recent progress in aircraft smart skin for structural health monitoring. Structural Health Monitoring, 2022, 21, 2453-2480.	4.3	26
103	Reliable Peeling of Ultrathin Die With Multineedle Ejector. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2014, 4, 1545-1554.	1.4	25
104	Buckling-driven self-assembly of self-similar inspired micro/nanofibers for ultra-stretchable electronics. Soft Matter, 2017, 13, 7244-7254.	1.2	25
105	Conformable, programmable and step-linear sensor array for large-range wind pressure measurement on curved surface. Science China Technological Sciences, 2020, 63, 2073-2081.	2.0	25
106	Intersonic Crack Propagationâ€”Part II: Suddenly Stopping Crack. Journal of Applied Mechanics, Transactions ASME, 2002, 69, 76-80.	1.1	24
107	Effect of plasticizer on the cracking of ceramic green bodies in gelcasting. Journal of Materials Science, 2005, 40, 4947-4949.	1.7	23
108	Extension of Stoneyâ€™s Formula to Arbitrary Temperature Distributions in Thin Film/Substrate Systems. Journal of Applied Mechanics, Transactions ASME, 2007, 74, 1225-1233.	1.1	23

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109	Measurement of radial deformation of single-wall carbon nanotubes induced by intertube van der Waals forces. Physical Review B, 2008, 77, .	1.1	23
110	Cohesive failure analysis of an array of IC chips bonded to a stretched substrate. International Journal of Solids and Structures, 2013, 50, 3528-3538.	1.3	23
111	Nonlinear characteristics in fracture strength test of ultrathin silicon die. Semiconductor Science and Technology, 2015, 30, 045005.	1.0	22
112	Numerical investigation of high-frequency pulsating electrohydrodynamic jet at low electric Bond numbers. Physics of Fluids, 2022, 34, .	1.6	21
113	Stretchability of encapsulated electronics. Applied Physics Letters, 2011, 99, 061911.	1.5	20
114	Near-field behavior of electrified jet under moving substrate constrains. AIP Advances, 2015, 5, .	0.6	20
115	Programmable robotized â€˜transfer-and-jetâ€™ printing for large, 3D curved electronics on complex surfaces. International Journal of Extreme Manufacturing, 2021, 3, 045101.	6.3	20
116	Numerical analysis of electrohydrodynamic jet printing under constant and step change of electric voltages. Physics of Fluids, 2022, 34, .	1.6	20
117	A Three-Dimensional Strain Gradient Plasticity Analysis of Particle Size Effect in Composite Materials. Materials and Manufacturing Processes, 2007, 22, 140-148.	2.7	19
118	Fabrication of Si-nozzles for parallel mechano-electrospinning direct writing. Journal Physics D: Applied Physics, 2013, 46, 255301.	1.3	19
119	Optimal design of self-similar serpentine interconnects embedded in stretchable electronics. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	19
120	Enhancing pulsed electrohydrodynamic printing frequency via high-order-mode ejection. Physics of Fluids, 2021, 33, .	1.6	19
121	Thermomechanical analysis of thin films on temperature-dependent elastomeric substrates in flexible heterogeneous electronics. Thin Solid Films, 2010, 518, 1698-1702.	0.8	18
122	Electrohydrodynamic Direct-Writing for Flexible Electronic Manufacturing. , 2018, , .		18
123	Multichannel noninvasive humanâ€“machine interface via stretchable Âµm thick sEMG patches for robot manipulation. Journal of Micromechanics and Microengineering, 2018, 28, 014005.	1.5	18
124	Critical Size/Viscosity for Coffee-Ring-Free Printing of Perovskite Micro/Nanopatterns. ACS Applied Materials & Interfaces, 2022, 14, 14712-14720.	4.0	18
125	Fabrication and evaluation of a protruding Si-based printhead for electrohydrodynamic jet printing. Journal of Micromechanics and Microengineering, 2017, 27, 125004.	1.5	17
126	Competing buckling of micro/nanowires on compliant substrates. Journal Physics D: Applied Physics, 2015, 48, 045302.	1.3	16

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127	Highly Robust and Wearable Facial Expression Recognition via Deep-Learning-Assisted, Soft Epidermal Electronics. Research, 2021, 2021, 9759601.	2.8	16
128	Electrohydrodynamically Printed Flexible Organic Memristor for Leaky Integrate and Fire Neuron. IEEE Electron Device Letters, 2022, 43, 116-119.	2.2	16
129	Laser-Induced Interfacial Spallation for Controllable and Versatile Delamination of Flexible Electronics. ACS Applied Materials & Interfaces, 2020, 12, 54230-54240.	4.0	15
130	Vacuum-based picking-up of thin chip from adhesive tape. Journal of Adhesion Science and Technology, 2015, 29, 1315-1329.	1.4	14
131	Conformal Peeling of Device-on-Substrate System in Flexible Electronic Assembly. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2018, 8, 1496-1506.	1.4	14
132	Theoretical and experimental studies of electrostatic focusing for electrohydrodynamic jet printing. Journal of Micromechanics and Microengineering, 2019, 29, 065002.	1.5	14
133	Morphology-programmable self-aligned microlens array for light extraction via electrohydrodynamic printing. Organic Electronics, 2020, 87, 105969.	1.4	14
134	Paramagnetic resonance of platinum ions in PbTiO3single crystals. Applied Physics Letters, 1993, 62, 146-148.	1.5	13
135	ADHESION BETWEEN CARBON NANOTUBES AND SUBSTRATE: MIMICKING THE GECKO FOOT-HAIR. Nano, 2007, 02, 175-179.	0.5	13
136	Thermomechanical Analysis of Film-on-Substrate System With Temperature-Dependent Properties. Journal of Applied Mechanics, Transactions ASME, 2010, 77, .	1.1	12
137	Process Optimization of Mechano-Electrospinning by Response Surface Methodology. Journal of Nanoscience and Nanotechnology, 2014, 14, 3464-3472.	0.9	12
138	Theoretical and Experimental Studies of Competing Fracture for Flexible Chip-Adhesive-Substrate Composite Structure. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2018, 8, 57-64.	1.4	12
139	Optofluidic Resonance of a Transparent Liquid Jet Excited by a Continuous Wave Laser. Physical Review Letters, 2021, 127, 244502.	2.9	12
140	The equivalence of axisymmetric indentation model for three-dimensional indentation hardness. Journal of Materials Research, 2009, 24, 776-783.	1.2	11
141	Internal resonance of vibrational modes in single-walled carbon nanotubes. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2009, 465, 3069-3082.	1.0	11
142	Tool path generation for triangular meshes using least-squares conformal map. International Journal of Production Research, 2011, 49, 3653-3667.	4.9	11
143	Driving force planning in shield tunneling based on Markov decision processes. Science China Technological Sciences, 2012, 55, 1022-1030.	2.0	11
144	Analytical Evaluation of Interfacial Crack Propagation in Vacuum-Based Picking-up Process. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2015, 5, 1700-1708.	1.4	11

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145	Active curved surface deforming of flexible conformal electronics by multi-fingered actuator. Robotics and Computer-Integrated Manufacturing, 2020, 64, 101942.	6.1	11
146	Interfacial shear stress, peeling stress, and die cracking stress in trilayer electronic assemblies. , 0, , .		10
147	Dynamics of water debinding in ceramic injection moulding. Advances in Applied Ceramics, 2009, 108, 295-300.	0.6	10
148	A comprehensive analysis of the growth rate of stress corrosion cracks. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20140703.	1.0	10
149	Multifunctional Tactile Feedbacks Towards Compliant Robot Manipulations via 3D-Shaped Electronic Skin. IEEE Sensors Journal, 2022, 22, 9046-9056.	2.4	10
150	Fracture in strain gradient elasticity. Metals and Materials International, 1998, 4, 593-600.	0.2	9
151	Experimental estimation of adhesive fracture energy of compliant adhesive tape. , 2014, , .		9
152	Competing Fracture of Thin-Chip Transferring From/Onto Prestrained Compliant Substrate. Journal of Applied Mechanics, Transactions ASME, 2015, 82, .	1.1	9
153	Reduced Magnetization and Loss in Ag–Mg Sheathed Bi2212 Wires: Systematics With Sample Twist Pitch and Length. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.1	9
154	Measurement of the toroidal radiation asymmetry during massive gas injection triggered disruptions on J-TEXT. Review of Scientific Instruments, 2018, 89, 10E113.	0.6	9
155	A Finite-Deformation Shell Theory for Carbon Nanotubes Based on the Interatomic Potentialâ€”Part II: Instability Analysis. Journal of Applied Mechanics, Transactions ASME, 2008, 75, .	1.1	8
156	Transfer printing and patterning of stretchable electrospun film. Thin Solid Films, 2013, 544, 152-156.	0.8	8
157	The Effect of Substrate on Continuous Electrohydrodynamic Printing. Advanced Materials Research, 0, 684, 352-356.	0.3	8
158	Opportunities and Challenges in Flexible and Stretchable Electronics: A Panel Discussion at ISFSE2016. Micromachines, 2017, 8, 129.	1.4	8
159	Electromechanical Design of Self-Similar Inspired Surface Electrodes for Human-Machine Interaction. Complexity, 2018, 2018, 1-14.	0.9	8
160	Roll-to-roll stack and lamination of gas diffusion layer in multilayer structured membrane electrode assembly. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2020, 234, 66-74.	1.5	8
161	Nonlinear dynamic performance of buckled piezoelectric ribbon-substrate energy harvester. Composite Structures, 2021, 261, 113570.	3.1	8
162	Experimental and modeling study of controllable laser lift-off via low-fluence multiscanning of polyimide-substrate interface. International Journal of Heat and Mass Transfer, 2022, 188, 122609.	2.5	8

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163	Tool-Path Generation Based on Angle-Based Flattening. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2010, 224, 1503-1509.	1.5	7
164	Plasma-jet-assisted maskless, erasable, extreme wetting-contrast patterning on stretchable carbon nanotubes film. Applied Physics Express, 2019, 12, 115503.	1.1	6
165	Large deformation of a conductive nanodroplet in a strong electric field. Physics of Fluids, 2020, 32, 022006.	1.6	6
166	Mechanically-compensated bending-strain measurement of multilayered paper-like electronics via surface-mounted sensor. Composite Structures, 2021, 277, 114652.	3.1	6
167	A machine learning approach to investigate the materials science of enamel aging. Dental Materials, 2021, 37, 1761-1771.	1.6	6
168	A circulant-matrix-based hybrid optical flow method for PIV measurement with large displacement. Experiments in Fluids, 2021, 62, 1.	1.1	6
169	Plane-Stress Deformation in Strain Gradient Plasticity. Journal of Applied Mechanics, Transactions ASME, 2000, 67, 105-111.	1.1	5
170	Material and structural instabilities of single-wall carbon nanotubes. Acta Mechanica Sinica/Lixue Xuebao, 2008, 24, 285-288.	1.5	5
171	A Novel Force Control Method for Quasi-Static Underactuated Multibody Systems. Advanced Robotics, 2009, 23, 1249-1260.	1.1	5
172	Analytical investigation on thermal-induced warpage behavior of ultrathin chip-on-flex (UTCOF) assembly. Science China Technological Sciences, 2016, 59, 1646-1655.	2.0	5
173	Stretchable Electronics: Inâ€Plane Deformation Mechanics for Highly Stretchable Electronics (Adv.) Tj ETQq1 1 0.784314 rgBT /Overlock	11.1	5
174	Buckling of beams with finite prebuckling deformation. International Journal of Solids and Structures, 2019, 165, 148-159.	1.3	5
175	Charged Satellite Drop Avoidance in Electrohydrodynamic Dripping. Micromachines, 2019, 10, 172.	1.4	5
176	Enhanced geometric precision of non-contact, conformal 3D printing via â€œerror-transferredâ€• towards jetting-direction. Precision Engineering, 2021, 72, 1-12.	1.8	5
177	Stretchable sEMG Electrodes Conformally Laminated on Skin for Continuous Electrophysiological Monitoring. Lecture Notes in Computer Science, 2017, , 77-86.	1.0	5
178	Chest-scale self-compensated epidermal electronics for standard 6-precordial-lead ECG. Npj Flexible Electronics, 2022, 6, .	5.1	5
179	Abnormal Tribological Behavior of Multiwalled Nanotube Rafts Part I: Aligned Rafts. Journal of Engineering Materials and Technology, Transactions of the ASME, 2005, 127, 383-392.	0.8	4
180	Polygonal-feature-based shape context for flexible surface vision positioning. Measurement Science and Technology, 2019, 30, 055403.	1.4	4

#	Article	IF	Citations
181	Theoretical Modeling of Conformal Criterion for Flexible Electronics Attached Onto Complex Surface. Journal of Applied Mechanics, Transactions ASME, 2022, 89, .	1.1	4
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