

Xue Feng

List of Publications by Year in descending order

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265
papers

13,855
citations

25034

57
h-index

24258

110
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271
all docs

271
docs citations

271
times ranked

13213
citing authors

#	ARTICLE	IF	CITATIONS
1	Centrosymmetric and Axisymmetric Patterned Flexible Tactile Sensor for Roughness and Slip Intelligent Recognition. <i>Advanced Intelligent Systems</i> , 2022, 4, 2100072.	6.1	16
2	Color crosstalk correction for synchronous measurement of full-field temperature and deformation. <i>Optics and Lasers in Engineering</i> , 2022, 150, 106878.	3.8	9
3	Ablation evolution of a new light weight silicon based thermal protection material in high temperature gas flow. <i>Ceramics International</i> , 2022, 48, 7136-7144.	4.8	5
4	Tunable Three-Dimensional Vibrational Structures for Concurrent Determination of Thin Film Modulus and Density. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2022, 89, .	2.2	3
5	Electronic skin as wireless human-machine interfaces for robotic VR. <i>Science Advances</i> , 2022, 8, eabl6700.	10.3	88
6	Flexible Dual-Channel Digital Auscultation Patch With Active Noise Reduction for Bowel Sound Monitoring and Application. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2022, 26, 2951-2962.	6.3	7
7	Rare earth monosilicates as oxidation resistant interphase for SiCf/SiC CMC: Investigation of SiCf/Yb ₂ SiO ₅ model composites. <i>Journal of Advanced Ceramics</i> , 2022, 11, 702-711.	17.4	12
8	Tuning the Sensitivity and Dynamic Range of Optical Oxygen Sensing Films by Blending Various Polymer Matrices. <i>Biosensors</i> , 2022, 12, 5.	4.7	2
9	Fluid Microchannel Encapsulation to Improve the Stretchability of Flexible Electronics. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	10
10	Healthcare Monitoring Applications. , 2022, , 57-124.		0
11	Mechanics Design of Conical Spiral Structure for Flexible Coilable Antenna Array. <i>International Journal of Aerospace Engineering</i> , 2022, 2022, 1-8.	0.9	1
12	Introduction to Flexible Bioelectronics. , 2022, , 1-56.		0
13	Stable and low-resistance polydopamine methacrylamide-polyacrylamide hydrogel for brain-computer interface. <i>Science China Materials</i> , 2022, 65, 2298-2308.	6.3	9
14	Tactile Near Sensor Analogue Computing for Ultrafast Responsive Artificial Skin. <i>Advanced Materials</i> , 2022, 34, .	21.0	42
15	Deep learning-based super-resolution images for synchronous measurement of temperature and deformation at elevated temperature. <i>Optik</i> , 2021, 226, 165764.	2.9	6
16	High-frequency flashing of light source for synchronous measurement of temperature and deformation at elevated temperature. <i>Optics and Lasers in Engineering</i> , 2021, 137, 106361.	3.8	7
17	Ultrathin Flexible Inorganic Device for Long-Term Monitoring of Light and Temperature. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 3558-3561.	3.0	4
18	Wireless, implantable catheter-type oximeter designed for cardiac oxygen saturation. <i>Science Advances</i> , 2021, 7, .	10.3	45

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19	Surface buckling with deterministic peaks/valleys regulated by bio-inspired micro-structures periodically distributed on elastic bilayers. <i>Journal of Applied Physics</i> , 2021, 129, 064703.	2.5	0
20	Sub-thermionic, ultra-high-gain organic transistors and circuits. <i>Nature Communications</i> , 2021, 12, 1928.	12.8	83
21	Biodegradable Flexible Electronic Device with Controlled Drug Release for Cancer Treatment. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 21067-21075.	8.0	14
22	Hybrid liquid-metal heat dissipation structure enabled by phase transition for flexible electronics. <i>Semiconductor Science and Technology</i> , 2021, 36, 055007.	2.0	2
23	Manufacture and Characterization of Ultrathin Flexible Chips. , 2021, , .		1
24	Caputo Fractional Derivative Hadamard Inequalities for Strongly m -Convex Functions. <i>Journal of Function Spaces</i> , 2021, 2021, 1-11.	0.9	5
25	Physiology-Based Stretchable Electronics Design Method for Accurate Surface Electromyography Evaluation. <i>Advanced Science</i> , 2021, 8, 2004987.	11.2	3
26	Interfacial Liquid Film Transfer Printing of Versatile Flexible Electronic Devices with High Yield Ratio. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100287.	3.7	9
27	High-temperature thermal expansion behaviour of C/SiC studied using an in-situ optical visualisation method and numerical simulations in a quartz lamp array heating environment. <i>Ceramics International</i> , 2021, 47, 12547-12556.	4.8	8
28	Flexible Hybrid Electronics for Monitoring Hypoxia. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2021, 15, 559-567.	4.0	2
29	High-Performance Flexible Pressure Sensor Based on Controllable Hierarchical Microstructures by Laser Scribing for Wearable Electronics. <i>Advanced Materials Technologies</i> , 2021, 6, 2100122.	5.8	42
30	Flexible Ultrasonic Patch for Accelerating Chronic Wound Healing. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100785.	7.6	31
31	Investigation of the bulging mechanism of C/SiC coating through in situ optical observation and numerical simulation. <i>Ceramics International</i> , 2021, 47, 20456-20466.	4.8	2
32	Synchronous measurement of temperature and deformation by an ultraviolet imaging system and monochromatic pyrometry at extreme temperatures. <i>Applied Optics</i> , 2021, 60, 6044.	1.8	1
33	Flexible arc-armor inspired by origami. <i>International Journal of Mechanical Sciences</i> , 2021, 201, 106463.	6.7	10
34	Improved monochromatic pyrometry for synchronous measurement of full-field temperature and deformation. <i>Science China Technological Sciences</i> , 2021, 64, 2033-2046.	4.0	3
35	Mechanics analysis of ultra-thin chip peeling from substrate under multi-needle-ejecting and vacuum-absorbing. <i>International Journal of Solids and Structures</i> , 2021, 224, 111009.	2.7	1
36	Mechanics of pressure driven transfer printing for stamp with micropillars. <i>Mechanics of Materials</i> , 2021, 160, 103960.	3.2	3

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37	Convolutional neural network-based image denoising for synchronous measurement of temperature and deformation at elevated temperature. <i>Optik</i> , 2021, 241, 166977.	2.9	8
38	Liquid Droplet Stamp Transfer Printing. <i>Advanced Functional Materials</i> , 2021, 31, 2105407.	14.9	14
39	A flexible, stretchable system for simultaneous acoustic energy transfer and communication. <i>Science Advances</i> , 2021, 7, eabg2507.	10.3	68
40	The effect of arterial stiffness on cuff-based blood pressure measurement. <i>Extreme Mechanics Letters</i> , 2021, 48, 101298.	4.1	5
41	Skin-Like Electronics for Perception and Interaction: Materials, Structural Designs, and Applications. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000108.	6.1	10
42	High-Efficiency Transfer Printing Using Droplet Stamps for Robust Hybrid Integration of Flexible Devices. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 1612-1619.	8.0	19
43	Flexible Doppler ultrasound device for the monitoring of blood flow velocity. <i>Science Advances</i> , 2021, 7, eabi9283.	10.3	57
44	Flexible Hybrid Electronics for Digital Healthcare. <i>Advanced Materials</i> , 2020, 32, e1902062.	21.0	345
45	Optimized deposition time boosts the performance of Prussian blue modified nanoporous gold electrodes for hydrogen peroxide monitoring. <i>Nanotechnology</i> , 2020, 31, 045501.	2.6	8
46	Configurations evolution of a buckled ribbon in response to out-of-plane loading. <i>Extreme Mechanics Letters</i> , 2020, 34, 100604.	4.1	19
47	Revealing thermal ablation mechanisms of C/SiC with in situ optical observation and numerical simulation. <i>Journal of the European Ceramic Society</i> , 2020, 40, 3897-3905.	5.7	11
48	Wirelessly controlled, bioresorbable drug delivery device with active valves that exploit electrochemically triggered crevice corrosion. <i>Science Advances</i> , 2020, 6, eabb1093.	10.3	87
49	Homogeneity Permitted Robust Connection for Additive Manufacturing Stretchable Electronics. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 43152-43159.	8.0	6
50	Stretchable Self-Powered Generator for Multiple Functional Detection. <i>ACS Applied Electronic Materials</i> , 2020, 2, 3577-3584.	4.3	4
51	Chemo-mechanical coupling effect on bidirectional diffusion process during oxidation. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	5
52	Skin-Like Hybrid Integrated Circuits Conformal to Face for Continuous Respiratory Monitoring. <i>Advanced Electronic Materials</i> , 2020, 6, 2000145.	5.1	24
53	Wearable skin-like optoelectronic systems with suppression of motion artifacts for cuff-less continuous blood pressure monitor. <i>National Science Review</i> , 2020, 7, 849-862.	9.5	82
54	Progress in integrated devices for optical vortex emission. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 303002.	2.8	5

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55	Flexible inorganic bioelectronics. <i>Npj Flexible Electronics</i> , 2020, 4, .	10.7	134
56	Flexible Hybrid Electronics. <i>Advanced Materials</i> , 2020, 32, e1905590.	21.0	59
57	Theoretical Modeling on Monitoring Left Ventricle Deformation Using Conformal Piezoelectric Sensors. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2020, 87, .	2.2	4
58	Removal of optical crosstalk caused by light source for synchronous measurement of temperature and deformation. <i>Optical Engineering</i> , 2020, 59, 1.	1.0	5
59	Temperature and deformation measurement for large-scale flat specimens based on image mosaic algorithms. <i>Applied Optics</i> , 2020, 59, 3145.	1.8	8
60	Optical difference in the frequency domain to suppress disturbance for wearable electronics. <i>Biomedical Optics Express</i> , 2020, 11, 6920.	2.9	1
61	Tactile Sensors: High-Performance Flexible Tactile Sensor Enabling Intelligent Haptic Perception for a Soft Prosthetic Hand (<i>Adv. Mater. Technol.</i> 8/2019). <i>Advanced Materials Technologies</i> , 2019, 4, 1970041.	5.8	3
62	Ultralow-Cost, Highly Sensitive, and Flexible Pressure Sensors Based on Carbon Black and Airlaid Paper for Wearable Electronics. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 33370-33379.	8.0	127
63	Chemo-mechanical coupling effect on high temperature oxidation: A review. <i>Science China Technological Sciences</i> , 2019, 62, 1297-1321.	4.0	13
64	A Photochemical Approach toward High-Fidelity Programmable Transfer Printing. <i>Advanced Materials Technologies</i> , 2019, 4, 1900163.	5.8	9
65	A flexible skin-mounted wireless acoustic device for bowel sounds monitoring and evaluation. <i>Science China Information Sciences</i> , 2019, 62, 1.	4.3	20
66	Fabrication of highly pressure-sensitive, hydrophobic, and flexible 3D carbon nanofiber networks by electrospinning for human physiological signal monitoring. <i>Nanoscale</i> , 2019, 11, 5942-5950.	5.6	88
67	Synchronous full-field measurement of temperature and deformation based on separated radiation and reflected light. <i>Optics and Lasers in Engineering</i> , 2019, 116, 94-102.	3.8	20
68	Evolution of surface droplets and flow patterns on C/SiC during thermal ablation. <i>Journal of the European Ceramic Society</i> , 2019, 39, 3566-3574.	5.7	16
69	Challenges and opportunities in chemomechanics of materials: A perspective. <i>Science China Technological Sciences</i> , 2019, 62, 1385-1387.	4.0	8
70	High-Linearity Hydrogen Peroxide Sensor Based on Nanoporous Gold Electrode. <i>Journal of the Electrochemical Society</i> , 2019, 166, B814-B820.	2.9	22
71	High-Performance Flexible Tactile Sensor Enabling Intelligent Haptic Perception for a Soft Prosthetic Hand. <i>Advanced Materials Technologies</i> , 2019, 4, 1900317.	5.8	54
72	Local wrinkling versus global buckling of stiff film bonded to finite-thick substrate. <i>Extreme Mechanics Letters</i> , 2019, 29, 100453.	4.1	10

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73	Effects of Orientations on Efficiency of Energy Harvesting from Heart Motion Using Ultrathin Flexible Piezoelectric Devices. <i>Advanced Theory and Simulations</i> , 2019, 2, 1900050.	2.8	3
74	Climbing-inspired twining electrodes using shape memory for peripheral nerve stimulation and recording. <i>Science Advances</i> , 2019, 5, eaaw1066.	10.3	180
75	Binodal, wireless epidermal electronic systems with in-sensor analytics for neonatal intensive care. <i>Science</i> , 2019, 363, .	12.6	521
76	Conformal analysis of epidermal electronics bonded onto wavy bio-tissue by moderately large deflection theory. <i>Mechanics of Materials</i> , 2019, 134, 61-68.	3.2	10
77	Skin-integrated wireless haptic interfaces for virtual and augmented reality. <i>Nature</i> , 2019, 575, 473-479.	27.8	610
78	High Performance, Tunable Electrically Small Antennas through Mechanically Guided 3D Assembly. <i>Small</i> , 2019, 15, e1804055.	10.0	60
79	Elastomers with Microislands as Strain Isolating Substrates for Stretchable Electronics. <i>Advanced Materials Technologies</i> , 2019, 4, 1800365.	5.8	13
80	Buckling configurations of stiff thin films tuned by micro-patterns on soft substrate. <i>International Journal of Solids and Structures</i> , 2019, 161, 55-63.	2.7	20
81	A novel approach to temperature-dependent thermal contact conductance during transient isothermal cooling. <i>International Journal of Heat and Mass Transfer</i> , 2019, 130, 1170-1177.	4.8	8
82	A Generic Soft Encapsulation Strategy for Stretchable Electronics. <i>Advanced Functional Materials</i> , 2019, 29, 1806630.	14.9	83
83	Freestanding 3D Mesostructures, Functional Devices, and Shape-Programmable Systems Based on Mechanically Induced Assembly with Shape Memory Polymers. <i>Advanced Materials</i> , 2019, 31, e1805615.	21.0	105
84	Overcoming high luminance gradient using serial exposure time method for synchronous full-field measurement of temperature and deformation. <i>Applied Optics</i> , 2019, 58, 6966.	1.8	10
85	Monte Carlo simulation of light scattering in tissue for the design of skin-like optical devices. <i>Biomedical Optics Express</i> , 2019, 10, 868.	2.9	6
86	Flexible and stretchable inorganic optoelectronics. <i>Optical Materials Express</i> , 2019, 9, 4023.	3.0	35
87	Microstructure evolution of FeNiCr alloy induced by stress-oxidation coupling using high temperature nanoindentation. <i>Corrosion Science</i> , 2018, 135, 192-196.	6.6	9
88	Effect of interface reaction and diffusion on stress-oxidation coupling at high temperature. <i>Journal of Applied Physics</i> , 2018, 123, 155301.	2.5	21
89	Anisotropic Mechanics of Cellular Substrate Under Finite Deformation. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2018, 85, .	2.2	13
90	Battery-free, wireless sensors for full-body pressure and temperature mapping. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	247

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91	Prussian Blue Modified Submicron Structured Gold Electrodes for Amperometric Hydrogen Peroxide Sensing. <i>Electroanalysis</i> , 2018, 30, 583-592.	2.9	9
92	Ultrathin flexible piezoelectric sensors for monitoring eye fatigue. <i>Journal of Micromechanics and Microengineering</i> , 2018, 28, 025010.	2.6	29
93	Reversible Semicrystalline Polymer as Actuators Driven by Organic Solvent Vapor. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1700716.	3.9	17
94	A finite deformation theory for the climbing habits and attachment of twining plants. <i>Journal of the Mechanics and Physics of Solids</i> , 2018, 116, 171-184.	4.8	10
95	In Situ Visualization Measurement of Flat Plate Ablation in High-Temperature Gas Flow. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2018, 85, .	2.2	4
96	Modification of the mechanism for stress-aided grain boundary oxidation ahead of cracks. <i>Oxidation of Metals</i> , 2018, 89, 331-338.	2.1	8
97	The equivalent medium of cellular substrate under large stretching, with applications to stretchable electronics. <i>Journal of the Mechanics and Physics of Solids</i> , 2018, 120, 199-207.	4.8	62
98	Bio-inspired 3D neural electrodes for the peripheral nerves stimulation using shape memory polymers. , 2018, , .		1
99	Failure Mechanism of Underfill Fillet Cracks in Flexible Wearable Electronics. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2018, 8, 1881-1887.	2.5	5
100	Stretchable Electronics: Toothed Substrate Design to Improve Stretchability of Serpentine Interconnect for Stretchable Electronics (<i>Adv. Mater. Technol.</i> 11/2018). <i>Advanced Materials Technologies</i> , 2018, 3, 1870044.	5.8	2
101	Epidermal Electronics: Wireless, Battery-Free Epidermal Electronics for Continuous, Quantitative, Multimodal Thermal Characterization of Skin (<i>Small</i> 47/2018). <i>Small</i> , 2018, 14, 1870226.	10.0	9
102	Wireless, Battery-Free Epidermal Electronics for Continuous, Quantitative, Multimodal Thermal Characterization of Skin. <i>Small</i> , 2018, 14, e1803192.	10.0	73
103	Relation between blood pressure and pulse wave velocity for human arteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 11144-11149.	7.1	193
104	Direct Fabrication of Stretchable Electronics on a Polymer Substrate with Process-Integrated Programmable Rigidity. <i>Advanced Functional Materials</i> , 2018, 28, 1804604.	14.9	63
105	Epidermal electronics for noninvasive, wireless, quantitative assessment of ventricular shunt function in patients with hydrocephalus. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	68
106	Mechanically active materials in three-dimensional mesostructures. <i>Science Advances</i> , 2018, 4, eaat8313.	10.3	89
107	Review on flexible photonics/electronics integrated devices and fabrication strategy. <i>Science China Information Sciences</i> , 2018, 61, 1.	4.3	72
108	Epidermal Electronic Systems for Measuring the Thermal Properties of Human Skin at Depths of up to Several Millimeters. <i>Advanced Functional Materials</i> , 2018, 28, 1802083.	14.9	47

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109	Flexible Transient Optical Waveguides and Surface-Wave Biosensors Constructed from Monocrystalline Silicon. <i>Advanced Materials</i> , 2018, 30, e1801584.	21.0	55
110	An extended method of estimating the fatigue performance of mechanical structures with fasteners subject to shear loads. <i>Advances in Mechanical Engineering</i> , 2018, 10, 168781401876771.	1.6	1
111	Advanced approaches for quantitative characterization of thermal transport properties in soft materials using thin, conformable resistive sensors. <i>Extreme Mechanics Letters</i> , 2018, 22, 27-35.	4.1	24
112	In situ full-field measurement of surface oxidation on Ni-based alloy using high temperature scanning probe microscopy. <i>Scientific Reports</i> , 2018, 8, 6684.	3.3	6
113	Optical Waveguides: Flexible Transient Optical Waveguides and Surface-Wave Biosensors Constructed from Monocrystalline Silicon (<i>Adv. Mater.</i> 32/2018). <i>Advanced Materials</i> , 2018, 30, 1870239.	21.0	1
114	Epidermal Thermal Depth Sensors: Epidermal Electronic Systems for Measuring the Thermal Properties of Human Skin at Depths of up to Several Millimeters (<i>Adv. Funct. Mater.</i> 34/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870242.	14.9	3
115	Toothed Substrate Design to Improve Stretchability of Serpentine Interconnect for Stretchable Electronics. <i>Advanced Materials Technologies</i> , 2018, 3, 1800169.	5.8	17
116	Thin, Millimeter Scale Fingernail Sensors for Thermal Characterization of Nail Bed Tissue. <i>Advanced Functional Materials</i> , 2018, 28, 1801380.	14.9	12
117	Chemical Sensing Systems that Utilize Soft Electronics on Thin Elastomeric Substrates with Open Cellular Designs. <i>Advanced Functional Materials</i> , 2017, 27, 1605476.	14.9	64
118	Flexible Near-Field Wireless Optoelectronics as Subdermal Implants for Broad Applications in Optogenetics. <i>Neuron</i> , 2017, 93, 509-521.e3.	8.1	323
119	Epidermal Inorganic Optoelectronics for Blood Oxygen Measurement. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601013.	7.6	86
120	Ceramic-Based Speckles and Enhanced Feature-Detecting Algorithm for Deformation Measurement at High Temperature. <i>Experimental Mechanics</i> , 2017, 57, 377-386.	2.0	11
121	Collapse of liquid-overfilled strain-isolation substrates in wearable electronics. <i>International Journal of Solids and Structures</i> , 2017, 117, 137-142.	2.7	18
122	Design and application of "J-shaped" stress-strain behavior in stretchable electronics: a review. <i>Lab on A Chip</i> , 2017, 17, 1689-1704.	6.0	140
123	Surface evolution and stability transition of silicon wafer subjected to nano-diamond grinding. <i>AIP Advances</i> , 2017, 7, 035221.	1.3	5
124	Ultralight, scalable, and high-temperature-resilient ceramic nanofiber sponges. <i>Science Advances</i> , 2017, 3, e1603170.	10.3	207
125	Ultrasensitive Flexible Temperature-Mechanical Dual-Parameter Sensor Based on Vanadium Dioxide Films. <i>IEEE Electron Device Letters</i> , 2017, 38, 1128-1131.	3.9	26
126	In-situ testing of surface evolution of SiC during thermal ablation: Mechanisms of formation, flowing and growth of liquid silica beads. <i>Ceramics International</i> , 2017, 43, 7040-7047.	4.8	15

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127	Curvature effect on the surface topography evolution during oxidation at small scale. <i>Journal of Applied Physics</i> , 2017, 121, 125301.	2.5	6
128	Soft Elastomers with Ionic Liquid-filled Cavities as Strain Isolating Substrates for Wearable Electronics. <i>Small</i> , 2017, 13, 1602954.	10.0	82
129	Oximetry: Miniaturized Battery-free Wireless Systems for Wearable Pulse Oximetry (<i>Adv. Funct. Mater.</i>)	14.9	14
130	Tuning the metal-insulator transition of vanadium dioxide thin films using a stretchable structure. <i>Journal of Alloys and Compounds</i> , 2017, 705, 468-474.	5.5	6
131	A skin-attachable, stretchable integrated system based on liquid GaInSn for wireless human motion monitoring with multi-site sensing capabilities. <i>NPG Asia Materials</i> , 2017, 9, e443-e443.	7.9	223
132	Ultrafast response flexible breath sensor based on vanadium dioxide. <i>Journal of Breath Research</i> , 2017, 11, 036002.	3.0	43
133	Hydrogen peroxide sensor based on electrodeposited Prussian blue film. <i>Journal of Applied Electrochemistry</i> , 2017, 47, 1261-1271.	2.9	18
134	Moisture-triggered physically transient electronics. <i>Science Advances</i> , 2017, 3, e1701222.	10.3	122
135	Attachment and interfacial strength between twining plants and the support. <i>Extreme Mechanics Letters</i> , 2017, 15, 108-112.	4.1	2
136	Experimental and Theoretical Studies of Serpentine Interconnects on Ultrathin Elastomers for Stretchable Electronics. <i>Advanced Functional Materials</i> , 2017, 27, 1702589.	14.9	111
137	Dissolution of Monocrystalline Silicon Nanomembranes and Their Use as Encapsulation Layers and Electrical Interfaces in Water-Soluble Electronics. <i>ACS Nano</i> , 2017, 11, 12562-12572.	14.6	82
138	Kinetics and Chemistry of Hydrolysis of Ultrathin, Thermally Grown Layers of Silicon Oxide as Biofluid Barriers in Flexible Electronic Systems. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 42633-42638.	8.0	45
139	Theory of energy harvesting from heartbeat including the effects of pleural cavity and respiration. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017, 473, 20170615.	2.1	7
140	Fully implantable, battery-free wireless optoelectronic devices for spinal optogenetics. <i>Pain</i> , 2017, 158, 2108-2116.	4.2	93
141	Collapse of microfluidic channels/reservoirs in thin, soft epidermal devices. <i>Extreme Mechanics Letters</i> , 2017, 11, 18-23.	4.1	23
142	Miniaturized Battery-free Wireless Systems for Wearable Pulse Oximetry. <i>Advanced Functional Materials</i> , 2017, 27, 1604373.	14.9	248
143	Skin-like biosensor system via electrochemical channels for noninvasive blood glucose monitoring. <i>Science Advances</i> , 2017, 3, e1701629.	10.3	336
144	Skin-like nanostructured biosensor system for noninvasive blood glucose monitoring. , 2017, , .		1

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145	Multimodal epidermal devices for hydration monitoring. <i>Microsystems and Nanoengineering</i> , 2017, 3, 17014.	7.0	52
146	Experimental and theoretical analysis of integrated circuit (IC) chips on flexible substrates subjected to bending. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	2
147	Analysis and improvement of accuracy, sensitivity, and resolution of the coherent gradient sensing method. <i>Applied Optics</i> , 2016, 55, 4752.	2.1	8
148	Direct Laser Writing-Based Programmable Transfer Printing via Bioinspired Shape Memory Reversible Adhesive. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 35628-35633.	8.0	97
149	Ultra-thin and ultra-flexible temperature/strain sensor with CNT nanostrips. , 2016, , .		0
150	Surface evolution at nanoscale during oxidation: A competing mechanism between local curvature effect and stress effect. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	20
151	Interfacial Delamination of Inorganic Films on Viscoelastic Substrates. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2016, 83, .	2.2	13
152	Thermal shock resistance of alumina ceramics enhanced by nanostructured conformal coatings using metal-organic frameworks. <i>Scripta Materialia</i> , 2016, 119, 38-42.	5.2	8
153	Ferromagnetic, Folded Electrode Composite as a Soft Interface to the Skin for Long-Term Electrophysiological Recording. <i>Advanced Functional Materials</i> , 2016, 26, 7281-7290.	14.9	53
154	Transition of oxide film configuration and the critical stress inferred by scanning probe microscopy at nanoscale. <i>Chemical Physics Letters</i> , 2016, 660, 33-36.	2.6	6
155	Buckling-Based Method for Measuring the Strain-Photonic Coupling Effect of GaAs Nanoribbons. <i>ACS Nano</i> , 2016, 10, 8199-8206.	14.6	24
156	Wrinkling of a stiff thin film bonded to a pre-strained, compliant substrate with finite thickness. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016, 472, 20160339.	2.1	25
157	Effects of creep and oxidation on reduced modulus in high-temperature nanoindentation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 678, 65-71.	5.6	23
158	Electrodes: Ferromagnetic, Folded Electrode Composite as a Soft Interface to the Skin for Long-Term Electrophysiological Recording (Adv. Funct. Mater. 40/2016). <i>Advanced Functional Materials</i> , 2016, 26, 7280-7280.	14.9	0
159	Epidermal radio frequency electronics for wireless power transfer. <i>Microsystems and Nanoengineering</i> , 2016, 2, 16052.	7.0	72
160	c-axis preferential orientation of hydroxyapatite accounts for the high wear resistance of the teeth of black carp (<i>Mylopharyngodon piceus</i>). <i>Scientific Reports</i> , 2016, 6, 23509.	3.3	9
161	Battery-free, stretchable optoelectronic systems for wireless optical characterization of the skin. <i>Science Advances</i> , 2016, 2, e1600418.	10.3	336
162	Computational models for the determination of depth-dependent mechanical properties of skin with a soft, flexible measurement device. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016, 472, 20160225.	2.1	16

#	ARTICLE	IF	CITATIONS
163	Design of Strain-Limiting Substrate Materials for Stretchable and Flexible Electronics. <i>Advanced Functional Materials</i> , 2016, 26, 5345-5351.	14.9	92
164	Digital Gradient Sensing Method to Evaluate Thermal Stress at Elevated Temperatures. <i>Experimental Mechanics</i> , 2016, 56, 1123-1132.	2.0	7
165	Improving the thermal shock resistance of ceramics by crack arrest blocks. <i>Science China Technological Sciences</i> , 2016, 59, 913-919.	4.0	6
166	Oxidation at High Temperature Under Three-Point Bending Considering Stress-Diffusion Coupling Effects. <i>Oxidation of Metals</i> , 2016, 86, 125-133.	2.1	11
167	Biocompatible and Ultra-Flexible Inorganic Strain Sensors Attached to Skin for Long-Term Vital Signs Monitoring. <i>IEEE Electron Device Letters</i> , 2016, 37, 496-499.	3.9	59
168	Electromechanical Modeling of Energy Harvesting From the Motion of Left Ventricle in Closed Chest Environment. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2016, 83, .	2.2	15
169	Mechanics and thermal management of stretchable inorganic electronics. <i>National Science Review</i> , 2016, 3, 128-143.	9.5	112
170	Formation mechanisms of characteristic structures on the surface of C/SiC composites subjected to thermal ablation. <i>Journal of the European Ceramic Society</i> , 2016, 36, 451-456.	5.7	37
171	Synchronous Full-Field Measurement of Temperature and Deformation of C/SiC Composite Subjected to Flame Heating at High Temperature. <i>Experimental Mechanics</i> , 2016, 56, 659-671.	2.0	26
172	Stretchable and flexible photonics/electronics devices and transfer printing. <i>Science in China Series G: Physics, Mechanics and Astronomy</i> , 2016, 46, 044607.	0.2	5
173	Epidermal Systems: Soft Core/Shell Packages for Stretchable Electronics (<i>Adv. Funct. Mater.</i> 24/2015). <i>Advanced Functional Materials</i> , 2015, 25, 3697-3697.	14.9	6
174	Ultra-flexible Piezoelectric Devices Integrated with Heart to Harvest the Biomechanical Energy. <i>Scientific Reports</i> , 2015, 5, 16065.	3.3	132
175	Epidermal Electronics: Miniaturized Flexible Electronic Systems with Wireless Power and Near-Field Communication Capabilities (<i>Adv. Funct. Mater.</i> 30/2015). <i>Advanced Functional Materials</i> , 2015, 25, 4919-4919.	14.9	3
176	Wireless Microfluidic Systems for Programmed, Functional Transformation of Transient Electronic Devices. <i>Advanced Functional Materials</i> , 2015, 25, 5100-5106.	14.9	37
177	Bio-Inspired Microstructure Design to Improve Thermal Ablation and Oxidation Resistance: Experiment on SiC. <i>Journal of the American Ceramic Society</i> , 2015, 98, 4010-4015.	3.8	12
178	Miniaturized Flexible Electronic Systems with Wireless Power and Near-Field Communication Capabilities. <i>Advanced Functional Materials</i> , 2015, 25, 4761-4767.	14.9	148
179	Soft Core/Shell Packages for Stretchable Electronics. <i>Advanced Functional Materials</i> , 2015, 25, 3698-3704.	14.9	116
180	Utilizing mechanical loads and flexoelectricity to induce and control complicated evolution of domain patterns in ferroelectric nanofilms. <i>Journal of the Mechanics and Physics of Solids</i> , 2015, 79, 108-133.	4.8	52

#	ARTICLE	IF	CITATIONS
181	Measurements for displacement and deformation at high temperature by using edge detection of digital image. <i>Applied Optics</i> , 2015, 54, 8731.	2.1	27
182	Dynamic response and numerical simulation of Al-Sc and Al-Ti alloys under high-speed impact. <i>Transactions of Nonferrous Metals Society of China</i> , 2015, 25, 559-570.	4.2	1
183	A theoretical model of reversible adhesion in shape memory surface relief structures and its application in transfer printing. <i>Journal of the Mechanics and Physics of Solids</i> , 2015, 77, 27-42.	4.8	44
184	Stretchable Electronics: Epidermal Electronics with Advanced Capabilities in Near-Field Communication (Small 8/2015). <i>Small</i> , 2015, 11, 905-905.	10.0	8
185	Experimental and numerical investigation on SiC coating delamination from C/SiC composites. <i>Composites Science and Technology</i> , 2015, 110, 210-216.	7.8	17
186	Breathable and Stretchable Temperature Sensors Inspired by Skin. <i>Scientific Reports</i> , 2015, 5, 11505.	3.3	218
187	The impact of the thermal conductivity of a dielectric layer on the self-heating effect of a graphene transistor. <i>Nanoscale</i> , 2015, 7, 13561-13567.	5.6	3
188	In situ measurement of oxidation evolution at elevated temperature by nanoindentation. <i>Scripta Materialia</i> , 2015, 103, 61-64.	5.2	25
189	Full-field measurement of surface topographies and thin film stresses at elevated temperatures by digital gradient sensing method. <i>Applied Optics</i> , 2015, 54, 721.	1.8	10
190	Epidermal devices for noninvasive, precise, and continuous mapping of macrovascular and microvascular blood flow. <i>Science Advances</i> , 2015, 1, e1500701.	10.3	189
191	Mechanics of flexible and stretchable piezoelectrics for energy harvesting. <i>Science China: Physics, Mechanics and Astronomy</i> , 2015, 58, 1.	5.1	16
192	Transition among failure modes of the bending system with a stiff film on a soft substrate. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	18
193	Performance of TBCs system due to the different thicknesses of top ceramic layer. <i>Ceramics International</i> , 2015, 41, 2840-2846.	4.8	20
194	Epidermal Electronics with Advanced Capabilities in Near-Field Communication. <i>Small</i> , 2015, 11, 906-912.	10.0	224
195	Three-point bending test at extremely high temperature enhanced by real-time observation and measurement. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015, 59, 171-176.	5.0	26
196	BIO-INTEGRATED FLEXIBLE SENSORS FOR HEALTH MONITORING: FABRICATION, INTEGRATION AND CHARACTERIZATION. , 2015, , 21-22.		0
197	The Temperature-Dependent Strength of Metals: Theory and Experimental Validation. <i>Journal of Applied Mechanics</i> , <i>Transactions ASME</i> , 2014, 81, .	2.2	6
198	In situ observation and measurement of composites subjected to extremely high temperature. <i>Review of Scientific Instruments</i> , 2014, 85, 035104.	1.3	22

#	ARTICLE	IF	CITATIONS
199	Magnetic and electric bulge-test instrument for the determination of coupling mechanical properties of functional free-standing films and flexible electronics. Review of Scientific Instruments, 2014, 85, 065117.	1.3	9
200	Interfacial Failure in Flexible Electronic Devices. IEEE Electron Device Letters, 2014, 35, 132-134.	3.9	38
201	Temperature-Dependent Modulus of Metals Based on Lattice Vibration Theory. Journal of Applied Mechanics, Transactions ASME, 2014, 81, .	2.2	9
202	Crack Arrest in Brittle Ceramics Subjected to Thermal Shock and Ablation. Chinese Physics Letters, 2014, 31, 094601.	3.3	3
203	Ablation of C/SiC, C/SiCâ€ZrO2 and C/SiCâ€ZrB2 composites in dry air and air mixed with water vapor. Ceramics International, 2014, 40, 2985-2991.	4.8	37
204	Conformal piezoelectric energy harvesting and storage from motions of the heart, lung, and diaphragm. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1927-1932.	7.1	720
205	Controllable wrinkle configurations by soft micro-patterns to enhance the stretchability of Si ribbons. Soft Matter, 2014, 10, 2559.	2.7	23
206	Slip zone model for interfacial failures of stiff film/soft substrate composite system in flexible electronics. Mechanics of Materials, 2014, 79, 35-44.	3.2	33
207	Stressâ€diffusion interaction during oxidation at high temperature. Chemical Physics Letters, 2014, 614, 95-98.	2.6	26
208	Magnetization in thin film inferred by full-field curvatures based on cantilever beam technique. NDT and E International, 2014, 63, 35-37.	3.7	2
209	Effect of Mechanical Loads on Stability of Nanodomains in Ferroelectric Ultrathin Films: Towards Flexible Erasing of the Non-Volatile Memories. Scientific Reports, 2014, 4, 5339.	3.3	23
210	Full-field Measurement of Topography and Curvature by Coherent Gradient Sensing Method at High Temperature. Experimental Mechanics, 2013, 53, 959-963.	2.0	17
211	Fatigue crack growth and propagation along the adhesive interface between fiber-reinforced composites. Engineering Fracture Mechanics, 2013, 110, 290-299.	4.3	15
212	Diffusion and Stress Coupling Effect during Oxidation at High Temperature. Journal of the American Ceramic Society, 2013, 96, 44-46.	3.8	78
213	Experiments and viscoelastic analysis of peel test with patterned strips for applications to transfer printing. Journal of the Mechanics and Physics of Solids, 2013, 61, 1737-1752.	4.8	100
214	Dynamic response and microstructure control of Alâ€Sc binary alloy under high-speed impact. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 578, 35-45.	5.6	37
215	Multiwavelength shearing interferometry for measuring the slopes, curvatures, and shapes of thin films/substrate systems. Optics Letters, 2013, 38, 5446.	3.3	9
216	The coherent gradient sensor for film curvature measurements at cryogenic temperature. Optics Express, 2013, 21, 26352.	3.4	6

#	ARTICLE	IF	CITATIONS
217	Surface Effects on the Mechanical Behavior of Buckled Thin Film. Journal of Applied Mechanics, Transactions ASME, 2013, 80, .	2.2	9
218	A Finite-Deformation Mechanics Theory for Kinetically Controlled Transfer Printing. Journal of Applied Mechanics, Transactions ASME, 2013, 80, .	2.2	29
219	Directionally controlled transfer printing using micropatterned stamps. Applied Physics Letters, 2013, 103, .	3.3	22
220	Oxidation stress evolution and relaxation of oxide film/metal substrate system. Journal of Applied Physics, 2012, 112, .	2.5	36
221	Rate-dependent interaction between thin films and interfaces during micro/nanoscale transfer printing. Soft Matter, 2012, 8, 418-423.	2.7	19
222	Stretchable Ferroelectric Nanoribbons with Wavy Configurations on Elastomeric Substrates. ACS Nano, 2011, 5, 3326-3332.	14.6	188
223	Full-field measurement of nonuniform stresses of thin films at high temperature. Optics Express, 2011, 19, 13201.	3.4	35
224	Non-uniform stress distribution and deformation bifurcation of thin film/substrate system subjected to gradient temperature. Thin Solid Films, 2011, 519, 2464-2469.	1.8	6
225	Wrinkles formation and evolution of nanoribbons with finite length on elastomeric substrate. Applied Physics Letters, 2011, 99, .	3.3	9
226	Slippage toughness measurement of soft interface between stiff thin films and elastomeric substrate. Review of Scientific Instruments, 2011, 82, 104704.	1.3	16
227	The equivalent axisymmetric model for Berkovich indenters in power-law hardening materials. International Journal of Plasticity, 2010, 26, 141-148.	8.8	32
228	Fabrication of lead-free (Na _{0.82} K _{0.18}) _{0.5} Bi _{0.5} TiO ₃ piezoelectric nanofiber by electrospinning. Materials Research Bulletin, 2010, 45, 717-721.	5.2	16
229	Enhancement on effective piezoelectric coefficient d ₃₃ of Bi _{3.15} Dy _{0.85} Ti ₃ O ₁₂ ferroelectric thin films. Materials Letters, 2010, 64, 618-621.	2.6	6
230	Structural and electrical properties of (Na _{0.85} K _{0.15}) _{0.5} Bi _{0.5} TiO ₃ thin films deposited on LaNiO ₃ and Pt bottom electrodes. Applied Surface Science, 2010, 256, 3316-3320.	6.1	24
231	Enhancement on effective piezoelectric coefficient of Bi _{3.25} Eu _{0.75} Ti ₃ O ₁₂ ferroelectric thin films under moderate annealing temperature. Thin Solid Films, 2010, 519, 714-718.	1.8	8
232	Interfacial slippage of inorganic electronic materials on plastic substrates. Applied Physics Letters, 2010, 97, .	3.3	20
233	Ferro-piezoelectric properties of 0.94(Na _{0.5} Bi _{0.5})TiO ₃ â€“0.06BaTiO ₃ thin film prepared by metalâ€“organic decomposition. Journal of Alloys and Compounds, 2010, 504, 129-133.	5.5	49
234	Thermal and piezoelectric properties of Bi _{3.15} Nd _{0.85} Ti ₃ O ₁₂ thin film prepared by metal organic decomposition. Transactions of Nonferrous Metals Society of China, 2010, 20, 1424-1428.	4.2	0

#	ARTICLE	IF	CITATIONS
235	Dynamic Thermoelastic Analysis of a Slab Using Finite Integral Transformation Method. AIAA Journal, 2010, 48, 1833-1839.	2.6	8
236	Dynamic behaviors of controllably buckled thin films. Applied Physics Letters, 2009, 95, .	3.3	14
237	A new dynamic device for low-dimensional materials testing. Review of Scientific Instruments, 2009, 80, 126108.	1.3	8
238	Delamination and Electromigration of Film Lines on Polymer Substrate Under Electrical Loading. IEEE Electron Device Letters, 2009, 30, 11-13.	3.9	16
239	A numerical study of indentation with small spherical indenters. Acta Mechanica Solida Sinica, 2009, 22, 18-26.	1.9	6
240	The effective Young's modulus of composites beyond the Voigt estimation due to the Poisson effect. Composites Science and Technology, 2009, 69, 2198-2204.	7.8	86
241	Anisotropic magnetostriction for Tb _{0.3} Dy _{0.7} Fe _{1.95} alloys under magnetomechanical loading. Journal of Alloys and Compounds, 2009, 476, 556-559.	5.5	18
242	Instability and failure analysis of film-substrate structure under electrical loading. , 2009, , .		2
243	Modeling fracture in carbon nanotubes using a meshless atomic-scale finite-element method. Jom, 2008, 60, 50-55.	1.9	2
244	Theoretical and Experimental Studies of Bending of Inorganic Electronic Materials on Plastic Substrates. Advanced Functional Materials, 2008, 18, 2673-2684.	14.9	398
245	Multilayer thin films/substrate system with variable film thickness subjected to non-uniform misfit strains. Acta Materialia, 2008, 56, 5322-5328.	7.9	8
246	Multi-layer thin films/substrate system subjected to non-uniform misfit strains. International Journal of Solids and Structures, 2008, 45, 3688-3698.	2.7	36
247	Deformation and Fracture of Functional Ferromagnetics. Applied Mechanics Reviews, 2008, 61, .	10.1	14
248	Stress focusing for controlled fracture in microelectromechanical systems. Applied Physics Letters, 2007, 90, 083110.	3.3	34
249	Magnetoelasticity of Tb _{0.3} Dy _{0.7} Fe _{1.95} alloys in a multiaxial stress-magnetic field space. Applied Physics Letters, 2007, 90, 182505.	3.3	29
250	Competing Fracture in Kinetically Controlled Transfer Printing. Langmuir, 2007, 23, 12555-12560.	3.5	301
251	Thin film/substrate systems featuring arbitrary film thickness and misfit strain distributions. Part II: Experimental validation of the non-local stress/curvature relations. International Journal of Solids and Structures, 2007, 44, 1755-1767.	2.7	37
252	Thin film/substrate systems featuring arbitrary film thickness and misfit strain distributions. Part I: Analysis for obtaining film stress from non-local curvature information. International Journal of Solids and Structures, 2007, 44, 1745-1754.	2.7	48

#	ARTICLE	IF	CITATIONS
253	Different protein expression of myocardium from Chinese mini-swine model of myocardial infarct. <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2007, 2, 422-427.	0.4	0
254	The effect of thin film/substrate radii on the Stoney formula for thin film/substrate subjected to nonuniform axisymmetric misfit strain and temperature. <i>Journal of Mechanics of Materials and Structures</i> , 2006, 1, 1041-1053.	0.6	46
255	Transfer printing by kinetic control of adhesion to an elastomeric stamp. <i>Nature Materials</i> , 2006, 5, 33-38.	27.5	1,348
256	Spatially non-uniform, isotropic misfit strain in thin films bonded on plate substrates: The relation between non-uniform film stresses and system curvatures. <i>Thin Solid Films</i> , 2006, 515, 2220-2229.	1.8	23
257	Microstructures and mechanical properties of AZ91 alloy with combined additions of Ca and Si. <i>Journal of Materials Science</i> , 2006, 41, 4725-4731.	3.7	32
258	Experimental Study on Electro-Magneto-Mechanical Behaviour of Electromagnetic Solids. <i>Key Engineering Materials</i> , 2006, 326-328, 5-12.	0.4	0
259	MAGNETOSTRICTIVE PROPERTIES OF TbDyFe ALLOYS ALONG THE DIRECTION PERPENDICULAR TO THE MAGNETIC FIELD. <i>Modern Physics Letters B</i> , 2005, 19, 163-167.	1.9	4
260	Closed-form solutions for piezomagnetic inhomogeneities embedded in a non-piezomagnetic matrix. <i>European Journal of Mechanics, A/Solids</i> , 2004, 23, 1007-1019.	3.7	9
261	Predicting effective magnetostriction and moduli of magnetostrictive composites by using the double-inclusion method. <i>Mechanics of Materials</i> , 2003, 35, 623-631.	3.2	18
262	Ferroelastic properties of oriented Tb _x Dy _{1-x} Fe ₂ polycrystals. <i>Applied Physics Letters</i> , 2003, 83, 3960-3962.	3.3	20
263	AN ANALYTICAL MODEL FOR PREDICTING EFFECTIVE MAGNETOSTRICTION OF MAGNETOSTRICTIVE COMPOSITES. <i>Modern Physics Letters B</i> , 2002, 16, 1107-1114.	1.9	3
264	Tensile properties and creep resistance of Fe ₃ Al-based alloys with tungsten addition. <i>Journal of Materials Science Letters</i> , 1997, 17, 181-184.	0.5	2
265	Effect of cerium addition on tensile properties of Fe ₃ Al-based alloys at ambient temperature. <i>Journal of Materials Science Letters</i> , 1996, 15, 820-822.	0.5	10