

Xue Feng

List of Publications by Year in Descending Order

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

258
papers

9,752
citations

47
h-index

93
g-index

271
ext. papers

11,802
ext. citations

6.9
avg, IF

6.2
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 258 | Electronic skin as wireless human-machine interfaces for robotic VR.. <i>Science Advances</i> , 2022 , 8, eabl67004 | 14.3 | 17 |
| 257 | Color crosstalk correction for synchronous measurement of full-field temperature and deformation. <i>Optics and Lasers in Engineering</i> , 2022 , 150, 106878 | 4.6 | 3 |
| 256 | Healthcare Monitoring Applications 2022 , 57-124 | | |
| 255 | 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 |
| 254 | Introduction to Flexible Bioelectronics 2022 , 1-56 | | |
| 253 | Ablation evolution of a new light weight silicon based thermal protection material in high temperature gas flow. <i>Ceramics International</i> , 2021 , 48, 7136-7136 | 5.1 | 0 |
| 252 | Flexible Doppler ultrasound device for the monitoring of blood flow velocity. <i>Science Advances</i> , 2021 , 7, eabi9283 | 14.3 | 7 |
| 251 | High-Efficiency Transfer Printing Using Droplet Stamps for Robust Hybrid Integration of Flexible Devices. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 1612-1619 | 9.5 | 5 |
| 250 | Sub-thermionic, ultra-high-gain organic transistors and circuits. <i>Nature Communications</i> , 2021 , 12, 1928 | 17.4 | 28 |
| 249 | Biodegradable Flexible Electronic Device with Controlled Drug Release for Cancer Treatment. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 21067-21075 | 9.5 | 5 |
| 248 | Hybrid liquid-metal heat dissipation structure enabled by phase transition for flexible electronics. <i>Semiconductor Science and Technology</i> , 2021 , 36, 055007 | 1.8 | 0 |
| 247 | Caputo Fractional Derivative Hadamard Inequalities for Strongly-Convex Functions. <i>Journal of Function Spaces</i> , 2021 , 2021, 1-11 | 0.8 | 4 |
| 246 | Physiology-Based Stretchable Electronics Design Method for Accurate Surface Electromyography Evaluation. <i>Advanced Science</i> , 2021 , 8, 2004987 | 13.6 | 1 |
| 245 | Interfacial Liquid Film Transfer Printing of Versatile Flexible Electronic Devices with High Yield Ratio. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100287 | 4.6 | 3 |
| 244 | 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 | 5.1 | 0 |
| 243 | Flexible Hybrid Electronics for Monitoring Hypoxia. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2021 , 15, 559-567 | 5.1 | |
| 242 | High-Performance Flexible Pressure Sensor Based on Controllable Hierarchical Microstructures by Laser Scribing for Wearable Electronics. <i>Advanced Materials Technologies</i> , 2021 , 6, 2100122 | 6.8 | 13 |

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|-----|--|------|----|
| 241 | Flexible Ultrasonic Patch for Accelerating Chronic Wound Healing. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100785 | 10.1 | 7 |
| 240 | 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 | 5.1 | 1 |
| 239 | Synchronous measurement of temperature and deformation by an ultraviolet imaging system and monochromatic pyrometry at extreme temperatures. <i>Applied Optics</i> , 2021 , 60, 6044-6056 | 1.7 | 0 |
| 238 | Deep learning-based super-resolution images for synchronous measurement of temperature and deformation at elevated temperature. <i>Optik</i> , 2021 , 226, 165764 | 2.5 | 3 |
| 237 | 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 | 4.6 | 4 |
| 236 | Ultrathin Flexible Inorganic Device for Long-Term Monitoring of Light and Temperature. <i>IEEE Transactions on Electron Devices</i> , 2021 , 1-4 | 2.9 | 1 |
| 235 | Wireless, implantable catheter-type oximeter designed for cardiac oxygen saturation. <i>Science Advances</i> , 2021 , 7, | 14.3 | 15 |
| 234 | 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 | |
| 233 | Flexible arc-armor inspired by origami. <i>International Journal of Mechanical Sciences</i> , 2021 , 201, 106463 | 5.5 | 2 |
| 232 | Improved monochromatic pyrometry for synchronous measurement of full-field temperature and deformation. <i>Science China Technological Sciences</i> , 2021 , 64, 2033-2046 | 3.5 | 1 |
| 231 | 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 | 3.1 | |
| 230 | Mechanics of pressure driven transfer printing for stamp with micropillars. <i>Mechanics of Materials</i> , 2021 , 160, 103960 | 3.3 | 2 |
| 229 | Convolutional neural network-based image denoising for synchronous measurement of temperature and deformation at elevated temperature. <i>Optik</i> , 2021 , 241, 166977 | 2.5 | 3 |
| 228 | A flexible, stretchable system for simultaneous acoustic energy transfer and communication. <i>Science Advances</i> , 2021 , 7, eabg2507 | 14.3 | 13 |
| 227 | The effect of arterial stiffness on cuff-based blood pressure measurement. <i>Extreme Mechanics Letters</i> , 2021 , 48, 101298 | 3.9 | 0 |
| 226 | Skin-Like Electronics for Perception and Interaction: Materials, Structural Designs, and Applications. <i>Advanced Intelligent Systems</i> , 2021 , 3, 2000108 | 6 | 3 |
| 225 | Chemo-mechanical coupling effect on bidirectional diffusion process during oxidation. <i>Journal of Applied Physics</i> , 2020 , 127, 125305 | 2.5 | 2 |
| 224 | Skin-Like Hybrid Integrated Circuits Conformal to Face for Continuous Respiratory Monitoring. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000145 | 6.4 | 8 |

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| 223 | 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 | 10.8 | 41 |
| 222 | Progress in integrated devices for optical vortex emission. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 303002 | 3 | 0 |
| 221 | Flexible inorganic bioelectronics. <i>Npj Flexible Electronics</i> , 2020 , 4, | 10.7 | 69 |
| 220 | Theoretical Modeling on Monitoring Left Ventricle Deformation Using Conformal Piezoelectric Sensors. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2020 , 87, | 2.7 | 4 |
| 219 | Removal of optical crosstalk caused by light source for synchronous measurement of temperature and deformation. <i>Optical Engineering</i> , 2020 , 59, 1 | 1.1 | 5 |
| 218 | Temperature and deformation measurement for large-scale flat specimens based on image mosaic algorithms. <i>Applied Optics</i> , 2020 , 59, 3145-3155 | 1.7 | 5 |
| 217 | Optical difference in the frequency domain to suppress disturbance for wearable electronics. <i>Biomedical Optics Express</i> , 2020 , 11, 6920-6932 | 3.5 | |
| 216 | Optimized deposition time boosts the performance of Prussian blue modified nanoporous gold electrodes for hydrogen peroxide monitoring. <i>Nanotechnology</i> , 2020 , 31, 045501 | 3.4 | 5 |
| 215 | Configurations evolution of a buckled ribbon in response to out-of-plane loading. <i>Extreme Mechanics Letters</i> , 2020 , 34, 100604 | 3.9 | 11 |
| 214 | 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 | 6 | 5 |
| 213 | Wirelessly controlled, bioresorbable drug delivery device with active valves that exploit electrochemically triggered crevice corrosion. <i>Science Advances</i> , 2020 , 6, eabb1093 | 14.3 | 35 |
| 212 | Homogeneity Permitted Robust Connection for Additive Manufacturing Stretchable Electronics. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 43152-43159 | 9.5 | 4 |
| 211 | Stretchable Self-Powered Generator for Multiple Functional Detection. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 3577-3584 | 4 | 2 |
| 210 | Flexible Hybrid Electronics for Digital Healthcare. <i>Advanced Materials</i> , 2020 , 32, e1902062 | 24 | 192 |
| 209 | A flexible skin-mounted wireless acoustic device for bowel sounds monitoring and evaluation. <i>Science China Information Sciences</i> , 2019 , 62, 1 | 3.4 | 10 |
| 208 | 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 | 7.7 | 62 |
| 207 | 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 | 4.6 | 14 |
| 206 | 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 | 6 | 9 |

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| 205 | Challenges and opportunities in chemomechanics of materials: A perspective. <i>Science China Technological Sciences</i> , 2019 , 62, 1385-1387 | 3.5 | 7 |
| 204 | High-Linearity Hydrogen Peroxide Sensor Based on Nanoporous Gold Electrode. <i>Journal of the Electrochemical Society</i> , 2019 , 166, B814-B820 | 3.9 | 15 |
| 203 | High-Performance Flexible Tactile Sensor Enabling Intelligent Haptic Perception for a Soft Prosthetic Hand. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900317 | 6.8 | 24 |
| 202 | Local wrinkling versus global buckling of stiff film bonded to finite-thick substrate. <i>Extreme Mechanics Letters</i> , 2019 , 29, 100453 | 3.9 | 7 |
| 201 | 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 | 3.5 | 2 |
| 200 | Climbing-inspired twining electrodes using shape memory for peripheral nerve stimulation and recording. <i>Science Advances</i> , 2019 , 5, eaaw1066 | 14.3 | 106 |
| 199 | Binodal, wireless epidermal electronic systems with in-sensor analytics for neonatal intensive care. <i>Science</i> , 2019 , 363, | 33.3 | 316 |
| 198 | Conformal analysis of epidermal electronics bonded onto wavy bio-tissue by moderately large deflection theory. <i>Mechanics of Materials</i> , 2019 , 134, 61-68 | 3.3 | 6 |
| 197 | Tactile Sensors: High-Performance Flexible Tactile Sensor Enabling Intelligent Haptic Perception for a Soft Prosthetic Hand (Adv. Mater. Technol. 8/2019). <i>Advanced Materials Technologies</i> , 2019 , 4, 1970041 | 6.8 | 3 |
| 196 | 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 | 9.5 | 72 |
| 195 | Chemo-mechanical coupling effect on high temperature oxidation: A review. <i>Science China Technological Sciences</i> , 2019 , 62, 1297-1321 | 3.5 | 6 |
| 194 | IV Group Materials-Based Solar Cells and Their Flexible Photovoltaic Technologies 2019 , 143-176 | | |
| 193 | A Photochemical Approach toward High-Fidelity Programmable Transfer Printing. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900163 | 6.8 | 4 |
| 192 | Overcoming high luminance gradient using serial exposure time method for synchronous full-field measurement of temperature and deformation. <i>Applied Optics</i> , 2019 , 58, 6966-6974 | 1.7 | 8 |
| 191 | Monte Carlo simulation of light scattering in tissue for the design of skin-like optical devices. <i>Biomedical Optics Express</i> , 2019 , 10, 868-878 | 3.5 | 4 |
| 190 | Flexible and stretchable inorganic optoelectronics. <i>Optical Materials Express</i> , 2019 , 9, 4023 | 2.6 | 26 |
| 189 | Skin-integrated wireless haptic interfaces for virtual and augmented reality. <i>Nature</i> , 2019 , 575, 473-479 | 50.4 | 307 |
| 188 | High Performance, Tunable Electrically Small Antennas through Mechanically Guided 3D Assembly. <i>Small</i> , 2019 , 15, e1804055 | 11 | 44 |

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| 187 | Elastomers with Microislands as Strain Isolating Substrates for Stretchable Electronics. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800365 | 6.8 | 10 |
| 186 | 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 | 3.1 | 15 |
| 185 | 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 | 4.9 | 4 |
| 184 | A Generic Soft Encapsulation Strategy for Stretchable Electronics. <i>Advanced Functional Materials</i> , 2019 , 29, 1806630 | 15.6 | 55 |
| 183 | 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 | 24 | 72 |
| 182 | Microstructure evolution of FeNiCr alloy induced by stress-oxidation coupling using high temperature nanoindentation. <i>Corrosion Science</i> , 2018 , 135, 192-196 | 6.8 | 6 |
| 181 | Effect of interface reaction and diffusion on stress-oxidation coupling at high temperature. <i>Journal of Applied Physics</i> , 2018 , 123, 155301 | 2.5 | 12 |
| 180 | Anisotropic Mechanics of Cellular Substrate Under Finite Deformation. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2018 , 85, | 2.7 | 11 |
| 179 | Battery-free, wireless sensors for full-body pressure and temperature mapping. <i>Science Translational Medicine</i> , 2018 , 10, | 17.5 | 176 |
| 178 | Prussian Blue Modified Submicron Structured Gold Electrodes for Amperometric Hydrogen Peroxide Sensing. <i>Electroanalysis</i> , 2018 , 30, 583-592 | 3 | 7 |
| 177 | Ultrathin flexible piezoelectric sensors for monitoring eye fatigue. <i>Journal of Micromechanics and Microengineering</i> , 2018 , 28, 025010 | 2 | 17 |
| 176 | Reversible Semicrystalline Polymer as Actuators Driven by Organic Solvent Vapor. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1700716 | 4.8 | 11 |
| 175 | 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 | 5 | 5 |
| 174 | In Situ Visualization Measurement of Flat Plate Ablation in High-Temperature Gas Flow. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2018 , 85, | 2.7 | 2 |
| 173 | Modification of the mechanism for stress-aided grain boundary oxidation ahead of cracks. <i>Oxidation of Metals</i> , 2018 , 89, 331-338 | 1.6 | 5 |
| 172 | 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 | 1.2 | 1 |
| 171 | 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 | 3.9 | 12 |
| 170 | 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 | 4.9 | 5 |

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| 169 | Optical Waveguides: Flexible Transient Optical Waveguides and Surface-Wave Biosensors Constructed from Monocrystalline Silicon (Adv. Mater. 32/2018). <i>Advanced Materials</i> , 2018 , 30, 1870239 ²⁴ | | 1 |
| 168 | Epidermal Thermal Depth Sensors: Epidermal Electronic Systems for Measuring the Thermal Properties of Human Skin at Depths of up to Several Millimeters (Adv. Funct. Mater. 34/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870242 | 15.6 | 3 |
| 167 | Toothed Substrate Design to Improve Stretchability of Serpentine Interconnect for Stretchable Electronics. <i>Advanced Materials Technologies</i> , 2018 , 3, 1800169 | 6.8 | 14 |
| 166 | Thin, Millimeter Scale Fingernail Sensors for Thermal Characterization of Nail Bed Tissue. <i>Advanced Functional Materials</i> , 2018 , 28, 1801380 | 15.6 | 11 |
| 165 | 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 | 5 | 45 |
| 164 | Bio-inspired 3D neural electrodes for the peripheral nerves stimulation using shape memory polymers 2018 , | | 1 |
| 163 | . <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2018 , 8, 1881-1887 | 1.7 | 3 |
| 162 | Stretchable Electronics: Toothed Substrate Design to Improve Stretchability of Serpentine Interconnect for Stretchable Electronics (Adv. Mater. Technol. 11/2018). <i>Advanced Materials Technologies</i> , 2018 , 3, 1870044 | 6.8 | 1 |
| 161 | Epidermal Electronics: Wireless, Battery-Free Epidermal Electronics for Continuous, Quantitative, Multimodal Thermal Characterization of Skin (Small 47/2018). <i>Small</i> , 2018 , 14, 1870226 | 11 | 7 |
| 160 | Wireless, Battery-Free Epidermal Electronics for Continuous, Quantitative, Multimodal Thermal Characterization of Skin. <i>Small</i> , 2018 , 14, e1803192 | 11 | 53 |
| 159 | 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 | 11.5 | 109 |
| 158 | Direct Fabrication of Stretchable Electronics on a Polymer Substrate with Process-Integrated Programmable Rigidity. <i>Advanced Functional Materials</i> , 2018 , 28, 1804604 | 15.6 | 43 |
| 157 | Epidermal electronics for noninvasive, wireless, quantitative assessment of ventricular shunt function in patients with hydrocephalus. <i>Science Translational Medicine</i> , 2018 , 10, | 17.5 | 51 |
| 156 | Mechanically active materials in three-dimensional mesostructures. <i>Science Advances</i> , 2018 , 4, eaat8313 | 14.3 | 57 |
| 155 | Review on flexible photonics/electronics integrated devices and fabrication strategy. <i>Science China Information Sciences</i> , 2018 , 61, 1 | 3.4 | 57 |
| 154 | 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 | 15.6 | 31 |
| 153 | Flexible Transient Optical Waveguides and Surface-Wave Biosensors Constructed from Monocrystalline Silicon. <i>Advanced Materials</i> , 2018 , 30, e1801584 | 24 | 36 |
| 152 | Chemical Sensing Systems that Utilize Soft Electronics on Thin Elastomeric Substrates with Open Cellular Designs. <i>Advanced Functional Materials</i> , 2017 , 9, 1605476 | 15.6 | 51 |

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| 151 | Flexible Near-Field Wireless Optoelectronics as Subdermal Implants for Broad Applications in Optogenetics. <i>Neuron</i> , 2017 , 93, 509-521.e3 | 13.9 | 225 |
| 150 | Epidermal Inorganic Optoelectronics for Blood Oxygen Measurement. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1601013 | 10.1 | 60 |
| 149 | Ceramic-Based Speckles and Enhanced Feature-Detecting Algorithm for Deformation Measurement at High Temperature. <i>Experimental Mechanics</i> , 2017 , 57, 377-386 | 2.6 | 10 |
| 148 | Collapse of liquid-overfilled strain-isolation substrates in wearable electronics. <i>International Journal of Solids and Structures</i> , 2017 , 117, 137-142 | 3.1 | 11 |
| 147 | Design and application of 'J-shaped' stress-strain behavior in stretchable electronics: a review. <i>Lab on A Chip</i> , 2017 , 17, 1689-1704 | 7.2 | 99 |
| 146 | Surface evolution and stability transition of silicon wafer subjected to nano-diamond grinding. <i>AIP Advances</i> , 2017 , 7, 035221 | 1.5 | 3 |
| 145 | Ultralight, scalable, and high-temperature-resilient ceramic nanofiber sponges. <i>Science Advances</i> , 2017 , 3, e1603170 | 14.3 | 123 |
| 144 | Ultrasensitive Flexible Temperature-Mechanical Dual-Parameter Sensor Based on Vanadium Dioxide Films. <i>IEEE Electron Device Letters</i> , 2017 , 38, 1128-1131 | 4.4 | 12 |
| 143 | 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 | 5.1 | 10 |
| 142 | Curvature effect on the surface topography evolution during oxidation at small scale. <i>Journal of Applied Physics</i> , 2017 , 121, 125301 | 2.5 | 6 |
| 141 | Soft Elastomers with Ionic Liquid-Filled Cavities as Strain Isolating Substrates for Wearable Electronics. <i>Small</i> , 2017 , 13, 1602954 | 11 | 67 |
| 140 | Oximetry: Miniaturized Battery-Free Wireless Systems for Wearable Pulse Oximetry (Adv. Funct. Mater. 1/2017). <i>Advanced Functional Materials</i> , 2017 , 27, | 15.6 | 3 |
| 139 | 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 | 5.7 | 5 |
| 138 | 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 | 10.3 | 145 |
| 137 | Ultrafast response flexible breath sensor based on vanadium dioxide. <i>Journal of Breath Research</i> , 2017 , 11, 036002 | 3.1 | 27 |
| 136 | Hydrogen peroxide sensor based on electrodeposited Prussian blue film. <i>Journal of Applied Electrochemistry</i> , 2017 , 47, 1261-1271 | 2.6 | 12 |
| 135 | Moisture-triggered physically transient electronics. <i>Science Advances</i> , 2017 , 3, e1701222 | 14.3 | 88 |
| 134 | Attachment and interfacial strength between twining plants and the support. <i>Extreme Mechanics Letters</i> , 2017 , 15, 108-112 | 3.9 | 0 |

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|-----|--|------|-----|
| 133 | Experimental and Theoretical Studies of Serpentine Interconnects on Ultrathin Elastomers for Stretchable Electronics. <i>Advanced Functional Materials</i> , 2017 , 27, 1702589 | 15.6 | 85 |
| 132 | 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 | 16.7 | 61 |
| 131 | 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 | 9.5 | 38 |
| 130 | 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 | 2.4 | 3 |
| 129 | Fully implantable, battery-free wireless optoelectronic devices for spinal optogenetics. <i>Pain</i> , 2017 , 158, 2108-2116 | 8 | 76 |
| 128 | Collapse of microfluidic channels/reservoirs in thin, soft epidermal devices. <i>Extreme Mechanics Letters</i> , 2017 , 11, 18-23 | 3.9 | 17 |
| 127 | Miniaturized Battery-Free Wireless Systems for Wearable Pulse Oximetry. <i>Advanced Functional Materials</i> , 2017 , 27, 1604373 | 15.6 | 182 |
| 126 | Skin-like biosensor system via electrochemical channels for noninvasive blood glucose monitoring. <i>Science Advances</i> , 2017 , 3, e1701629 | 14.3 | 216 |
| 125 | Skin-like nanostructured biosensor system for noninvasive blood glucose monitoring 2017 , | | 1 |
| 124 | Multimodal epidermal devices for hydration monitoring. <i>Microsystems and Nanoengineering</i> , 2017 , 3, 17014 | 7.7 | 40 |
| 123 | Experimental and theoretical analysis of integrated circuit (IC) chips on flexible substrates subjected to bending. <i>Journal of Applied Physics</i> , 2017 , 122, 135310 | 2.5 | 1 |
| 122 | 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 | 2.6 | 22 |
| 121 | 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 | 5.3 | 20 |
| 120 | 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 | 15.6 | |
| 119 | Epidermal radio frequency electronics for wireless power transfer. <i>Microsystems and Nanoengineering</i> , 2016 , 2, 16052 | 7.7 | 55 |
| 118 | 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 | 4.9 | 5 |
| 117 | Battery-free, stretchable optoelectronic systems for wireless optical characterization of the skin. <i>Science Advances</i> , 2016 , 2, e1600418 | 14.3 | 266 |
| 116 | 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 | 2.4 | 13 |

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| 115 | Design of Strain-Limiting Substrate Materials for Stretchable and Flexible Electronics. <i>Advanced Functional Materials</i> , 2016 , 26, 5345-5351 | 15.6 | 75 |
| 114 | Digital Gradient Sensing Method to Evaluate Thermal Stress at Elevated Temperatures. <i>Experimental Mechanics</i> , 2016 , 56, 1123-1132 | 2.6 | 4 |
| 113 | Improving the thermal shock resistance of ceramics by crack arrest blocks. <i>Science China Technological Sciences</i> , 2016 , 59, 913-919 | 3.5 | 5 |
| 112 | Oxidation at High Temperature Under Three-Point Bending Considering Stress-Diffusion Coupling Effects. <i>Oxidation of Metals</i> , 2016 , 86, 125-133 | 1.6 | 9 |
| 111 | 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 | 4.4 | 43 |
| 110 | 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, | 2.7 | 14 |
| 109 | Mechanics and thermal management of stretchable inorganic electronics. <i>National Science Review</i> , 2016 , 3, 128-143 | 10.8 | 92 |
| 108 | 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 | 6 | 29 |
| 107 | Stretchable and flexible photonics/electronics devices and transfer printing 2016 , 46, 044607 | | 4 |
| 106 | Analysis and improvement of accuracy, sensitivity, and resolution of the coherent gradient sensing method. <i>Applied Optics</i> , 2016 , 55, 4752-8 | 0.2 | 4 |
| 105 | Direct Laser Writing-Based Programmable Transfer Printing via Bioinspired Shape Memory Reversible Adhesive. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 35628-35633 | 9.5 | 71 |
| 104 | Surface evolution at nanoscale during oxidation: A competing mechanism between local curvature effect and stress effect. <i>Journal of Applied Physics</i> , 2016 , 119, 155302 | 2.5 | 16 |
| 103 | Interfacial Delamination of Inorganic Films on Viscoelastic Substrates. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2016 , 83, | 2.7 | 10 |
| 102 | Thermal shock resistance of alumina ceramics enhanced by nanostructured conformal coatings using metal-organic frameworks. <i>Scripta Materialia</i> , 2016 , 119, 38-42 | 5.6 | 7 |
| 101 | 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 | 15.6 | 40 |
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