

Xue Feng

List of Publications by Citations

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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	Transfer printing by kinetic control of adhesion to an elastomeric stamp. <i>Nature Materials</i> , 2006 , 5, 33-38	32.7	1093
257	Conformal piezoelectric energy harvesting and storage from motions of the heart, lung, and diaphragm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 1927-32	11.5	584
256	Theoretical and Experimental Studies of Bending of Inorganic Electronic Materials on Plastic Substrates. <i>Advanced Functional Materials</i> , 2008 , 18, 2673-2684	15.6	341
255	Binodal, wireless epidermal electronic systems with in-sensor analytics for neonatal intensive care. <i>Science</i> , 2019 , 363,	33.3	316
254	Skin-integrated wireless haptic interfaces for virtual and augmented reality. <i>Nature</i> , 2019 , 575, 473-479	50.4	307
253	Battery-free, stretchable optoelectronic systems for wireless optical characterization of the skin. <i>Science Advances</i> , 2016 , 2, e1600418	14.3	266
252	Competing fracture in kinetically controlled transfer printing. <i>Langmuir</i> , 2007 , 23, 12555-60	4	233
251	Flexible Near-Field Wireless Optoelectronics as Subdermal Implants for Broad Applications in Optogenetics. <i>Neuron</i> , 2017 , 93, 509-521.e3	13.9	225
250	Skin-like biosensor system via electrochemical channels for noninvasive blood glucose monitoring. <i>Science Advances</i> , 2017 , 3, e1701629	14.3	216
249	Flexible Hybrid Electronics for Digital Healthcare. <i>Advanced Materials</i> , 2020 , 32, e1902062	24	192
248	Epidermal electronics with advanced capabilities in near-field communication. <i>Small</i> , 2015 , 11, 906-12	11	191
247	Miniaturized Battery-Free Wireless Systems for Wearable Pulse Oximetry. <i>Advanced Functional Materials</i> , 2017 , 27, 1604373	15.6	182
246	Battery-free, wireless sensors for full-body pressure and temperature mapping. <i>Science Translational Medicine</i> , 2018 , 10,	17.5	176
245	Breathable and Stretchable Temperature Sensors Inspired by Skin. <i>Scientific Reports</i> , 2015 , 5, 11505	4.9	175
244	Stretchable ferroelectric nanoribbons with wavy configurations on elastomeric substrates. <i>ACS Nano</i> , 2011 , 5, 3326-32	16.7	162
243	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
242	Epidermal devices for noninvasive, precise, and continuous mapping of macrovascular and microvascular blood flow. <i>Science Advances</i> , 2015 , 1, e1500701	14.3	145

241	Ultralight, scalable, and high-temperature-resilient ceramic nanofiber sponges. <i>Science Advances</i> , 2017 , 3, e1603170	14.3	123
240	Miniaturized Flexible Electronic Systems with Wireless Power and Near-Field Communication Capabilities. <i>Advanced Functional Materials</i> , 2015 , 25, 4761-4767	15.6	114
239	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
238	Climbing-inspired twining electrodes using shape memory for peripheral nerve stimulation and recording. <i>Science Advances</i> , 2019 , 5, eaaw1066	14.3	106
237	Ultra-flexible Piezoelectric Devices Integrated with Heart to Harvest the Biomechanical Energy. <i>Scientific Reports</i> , 2015 , 5, 16065	4.9	103
236	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
235	Soft Core/Shell Packages for Stretchable Electronics. <i>Advanced Functional Materials</i> , 2015 , 25, 3698-3704	5.6	98
234	Mechanics and thermal management of stretchable inorganic electronics. <i>National Science Review</i> , 2016 , 3, 128-143	10.8	92
233	Moisture-triggered physically transient electronics. <i>Science Advances</i> , 2017 , 3, e1701222	14.3	88
232	Experimental and Theoretical Studies of Serpentine Interconnects on Ultrathin Elastomers for Stretchable Electronics. <i>Advanced Functional Materials</i> , 2017 , 27, 1702589	15.6	85
231	Experiments and viscoelastic analysis of peel test with patterned strips for applications to transfer printing. <i>Journal of the Mechanics and Physics of Solids</i> , 2013 , 61, 1737-1752	5	78
230	Fully implantable, battery-free wireless optoelectronic devices for spinal optogenetics. <i>Pain</i> , 2017 , 158, 2108-2116	8	76
229	Design of Strain-Limiting Substrate Materials for Stretchable and Flexible Electronics. <i>Advanced Functional Materials</i> , 2016 , 26, 5345-5351	15.6	75
228	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
227	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
226	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
225	Flexible inorganic bioelectronics. <i>Npj Flexible Electronics</i> , 2020 , 4,	10.7	69
224	Soft Elastomers with Ionic Liquid-Filled Cavities as Strain Isolating Substrates for Wearable Electronics. <i>Small</i> , 2017 , 13, 1602954	11	67

223	The effective Young's modulus of composites beyond the Voigt estimation due to the Poisson effect. <i>Composites Science and Technology</i> , 2009 , 69, 2198-2204	8.6	64
222	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
221	Diffusion and Stress Coupling Effect during Oxidation at High Temperature. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 44-46	3.8	61
220	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
219	Epidermal Inorganic Optoelectronics for Blood Oxygen Measurement. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1601013	10.1	60
218	Mechanically active materials in three-dimensional mesostructures. <i>Science Advances</i> , 2018 , 4, eaat8313	14.3	57
217	Review on flexible photonics/electronics integrated devices and fabrication strategy. <i>Science China Information Sciences</i> , 2018 , 61, 1	3.4	57
216	Epidermal radio frequency electronics for wireless power transfer. <i>Microsystems and Nanoengineering</i> , 2016 , 2, 16052	7.7	55
215	A Generic Soft Encapsulation Strategy for Stretchable Electronics. <i>Advanced Functional Materials</i> , 2019 , 29, 1806630	15.6	55
214	Wireless, Battery-Free Epidermal Electronics for Continuous, Quantitative, Multimodal Thermal Characterization of Skin. <i>Small</i> , 2018 , 14, e1803192	11	53
213	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
212	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
211	Ferro-piezoelectric properties of 0.94(Na _{0.5} Bi _{0.5})TiO ₃ 0.06BaTiO ₃ thin film prepared by metal-organic decomposition. <i>Journal of Alloys and Compounds</i> , 2010 , 504, 129-133	5.7	45
210	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
209	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	5	44
208	High Performance, Tunable Electrically Small Antennas through Mechanically Guided 3D Assembly. <i>Small</i> , 2019 , 15, e1804055	11	44
207	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
206	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	1.2	43

205	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
204	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
203	Thin film/substrate systems featuring arbitrary film thickness and misfit strain distributions. Part I: Analysis for obtaining film stress from non-local curvature information. <i>International Journal of Solids and Structures</i> , 2007 , 44, 1745-1754	3.1	40
202	Multimodal epidermal devices for hydration monitoring. <i>Microsystems and Nanoengineering</i> , 2017 , 3, 17014	7.7	40
201	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
200	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
199	Flexible Transient Optical Waveguides and Surface-Wave Biosensors Constructed from Monocrystalline Silicon. <i>Advanced Materials</i> , 2018 , 30, e1801584	24	36
198	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
197	Multi-layer thin films/substrate system subjected to non-uniform misfit strains. <i>International Journal of Solids and Structures</i> , 2008 , 45, 3688-3698	3.1	34
196	Ablation of C/SiC, C/SiC/rO ₂ and C/SiC/rB ₂ composites in dry air and air mixed with water vapor. <i>Ceramics International</i> , 2014 , 40, 2985-2991	5.1	33
195	Wireless Microfluidic Systems for Programmed, Functional Transformation of Transient Electronic Devices. <i>Advanced Functional Materials</i> , 2015 , 25, 5100-5106	15.6	32
194	Oxidation stress evolution and relaxation of oxide film/metal substrate system. <i>Journal of Applied Physics</i> , 2012 , 112, 023502	2.5	32
193	Thin film/substrate systems featuring arbitrary film thickness and misfit strain distributions. Part II: Experimental validation of the non-local stress/curvature relations. <i>International Journal of Solids and Structures</i> , 2007 , 44, 1755-1767	3.1	31
192	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
191	Interfacial Failure in Flexible Electronic Devices. <i>IEEE Electron Device Letters</i> , 2014 , 35, 132-134	4.4	30
190	Dynamic response and microstructure control of Al ₃ Sc binary alloy under high-speed impact. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 578, 35-45	5.3	30
189	Stress focusing for controlled fracture in microelectromechanical systems. <i>Applied Physics Letters</i> , 2007 , 90, 083110	3.4	30
188	Microstructures and mechanical properties of AZ91 alloy with combined additions of Ca and Si. <i>Journal of Materials Science</i> , 2006 , 41, 4725-4731	4.3	30

187	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	5	29
186	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
185	Slip zone model for interfacial failures of stiff film/soft substrate composite system in flexible electronics. <i>Mechanics of Materials</i> , 2014 , 79, 35-44	3.3	29
184	Magnetoelasticity of Tb _{0.3} Dy _{0.7} Fe _{1.95} alloys in a multiaxial stress-magnetic field space. <i>Applied Physics Letters</i> , 2007 , 90, 182505	3.4	29
183	Sub-thermionic, ultra-high-gain organic transistors and circuits. <i>Nature Communications</i> , 2021 , 12, 1928	17.4	28
182	Ultrafast response flexible breath sensor based on vanadium dioxide. <i>Journal of Breath Research</i> , 2017 , 11, 036002	3.1	27
181	Full-field measurement of nonuniform stresses of thin films at high temperature. <i>Optics Express</i> , 2011 , 19, 13201-8	3.3	27
180	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	4.6	26
179	Flexible and stretchable inorganic optoelectronics. <i>Optical Materials Express</i> , 2019 , 9, 4023	2.6	26
178	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
177	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. <i>Applied Surface Science</i> , 2010 , 256, 3316-3320	6.7	23
176	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
175	In situ measurement of oxidation evolution at elevated temperature by nanoindentation. <i>Scripta Materialia</i> , 2015 , 103, 61-64	5.6	22
174	Measurements for displacement and deformation at high temperature by using edge detection of digital image. <i>Applied Optics</i> , 2015 , 54, 8731-7	0.2	22
173	The equivalent axisymmetric model for Berkovich indenters in power-law hardening materials. <i>International Journal of Plasticity</i> , 2010 , 26, 141-148	7.6	22
172	Buckling-Based Method for Measuring the Strain-Photonic Coupling Effect of GaAs Nanoribbons. <i>ACS Nano</i> , 2016 , 10, 8199-206	16.7	22
171	Controllable wrinkle configurations by soft micro-patterns to enhance the stretchability of Si ribbons. <i>Soft Matter</i> , 2014 , 10, 2559-66	3.6	21
170	In situ observation and measurement of composites subjected to extremely high temperature. <i>Review of Scientific Instruments</i> , 2014 , 85, 035104	1.7	21

169	Effect of mechanical loads on stability of nanodomains in ferroelectric ultrathin films: towards flexible erasing of the non-volatile memories. <i>Scientific Reports</i> , 2014 , 4, 5339	4.9	20
168	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
167	Stress-diffusion interaction during oxidation at high temperature. <i>Chemical Physics Letters</i> , 2014 , 614, 95-98	2.5	20
166	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	2.4	20
165	A Finite-Deformation Mechanics Theory for Kinetically Controlled Transfer Printing. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013 , 80,	2.7	19
164	Interfacial slippage of inorganic electronic materials on plastic substrates. <i>Applied Physics Letters</i> , 2010 , 97, 221903	3.4	18
163	Ultrathin flexible piezoelectric sensors for monitoring eye fatigue. <i>Journal of Micromechanics and Microengineering</i> , 2018 , 28, 025010	2	17
162	Collapse of microfluidic channels/reservoirs in thin, soft epidermal devices. <i>Extreme Mechanics Letters</i> , 2017 , 11, 18-23	3.9	17
161	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	2.2	17
160	Electronic skin as wireless human-machine interfaces for robotic VR.. <i>Science Advances</i> , 2022 , 8, eabl6700	4.3	17
159	Experimental and numerical investigation on SiC coating delamination from C/SiC composites. <i>Composites Science and Technology</i> , 2015 , 110, 210-216	8.6	16
158	Ferroelastic properties of oriented Tb _x Dy _{1-x} Fe ₂ polycrystals. <i>Applied Physics Letters</i> , 2003 , 83, 3960-3963	3.4	16
157	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
156	High-Linearity Hydrogen Peroxide Sensor Based on Nanoporous Gold Electrode. <i>Journal of the Electrochemical Society</i> , 2019 , 166, B814-B820	3.9	15
155	Directionally controlled transfer printing using micropatterned stamps. <i>Applied Physics Letters</i> , 2013 , 103, 151607	3.4	15
154	Delamination and Electromigration of Film Lines on Polymer Substrate Under Electrical Loading. <i>IEEE Electron Device Letters</i> , 2009 , 30, 11-13	4.4	15
153	Anisotropic magnetostriction for Tb _{0.3} Dy _{0.7} Fe _{1.95} alloys under magnetomechanical loading. <i>Journal of Alloys and Compounds</i> , 2009 , 476, 556-559	5.7	15
152	Predicting effective magnetostriction and moduli of magnetostrictive composites by using the double-inclusion method. <i>Mechanics of Materials</i> , 2003 , 35, 623-631	3.3	15

151	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
150	Wireless, implantable catheter-type oximeter designed for cardiac oxygen saturation. <i>Science Advances</i> , 2021 , 7,	14.3	15
149	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
148	Performance of TBCs system due to the different thicknesses of top ceramic layer. <i>Ceramics International</i> , 2015 , 41, 2840-2846	5.1	14
147	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
146	Toothed Substrate Design to Improve Stretchability of Serpentine Interconnect for Stretchable Electronics. <i>Advanced Materials Technologies</i> , 2018 , 3, 1800169	6.8	14
145	Dynamic behaviors of controllably buckled thin films. <i>Applied Physics Letters</i> , 2009 , 95, 231915	3.4	14
144	Slippage toughness measurement of soft interface between stiff thin films and elastomeric substrate. <i>Review of Scientific Instruments</i> , 2011 , 82, 104704	1.7	14
143	Fabrication of lead-free (Na _{0.82} K _{0.18}) _{0.5} Bi _{0.5} TiO ₃ piezoelectric nanofiber by electrospinning. <i>Materials Research Bulletin</i> , 2010 , 45, 717-721	5.1	14
142	Mechanics of flexible and stretchable piezoelectrics for energy harvesting. <i>Science China: Physics, Mechanics and Astronomy</i> , 2015 , 58, 1	3.6	13
141	Transition among failure modes of the bending system with a stiff film on a soft substrate. <i>Applied Physics Letters</i> , 2015 , 106, 021905	3.4	13
140	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
139	Full-field Measurement of Topography and Curvature by Coherent Gradient Sensing Method at High Temperature. <i>Experimental Mechanics</i> , 2013 , 53, 959-963	2.6	13
138	Rate-dependent interaction between thin films and interfaces during micro/nanoscale transfer printing. <i>Soft Matter</i> , 2012 , 8, 418-423	3.6	13
137	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
136	A flexible, stretchable system for simultaneous acoustic energy transfer and communication. <i>Science Advances</i> , 2021 , 7, eabg2507	14.3	13
135	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
134	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

133	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
132	Hydrogen peroxide sensor based on electrodeposited Prussian blue film. <i>Journal of Applied Electrochemistry</i> , 2017 , 47, 1261-1271	2.6	12
131	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
130	Anisotropic Mechanics of Cellular Substrate Under Finite Deformation. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2018 , 85,	2.7	11
129	Reversible Semicrystalline Polymer as Actuators Driven by Organic Solvent Vapor. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1700716	4.8	11
128	Thin, Millimeter Scale Fingernail Sensors for Thermal Characterization of Nail Bed Tissue. <i>Advanced Functional Materials</i> , 2018 , 28, 1801380	15.6	11
127	Deformation and Fracture of Functional Ferromagnetics. <i>Applied Mechanics Reviews</i> , 2008 , 61,	8.6	11
126	Configurations evolution of a buckled ribbon in response to out-of-plane loading. <i>Extreme Mechanics Letters</i> , 2020 , 34, 100604	3.9	11
125	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
124	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
123	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
122	Fatigue crack growth and propagation along the adhesive interface between fiber-reinforced composites. <i>Engineering Fracture Mechanics</i> , 2013 , 110, 290-299	4.2	10
121	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	10
120	Interfacial Delamination of Inorganic Films on Viscoelastic Substrates. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2016 , 83,	2.7	10
119	Elastomers with Microislands as Strain Isolating Substrates for Stretchable Electronics. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800365	6.8	10
118	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
117	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
116	Temperature-Dependent Modulus of Metals Based on Lattice Vibration Theory. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2014 , 81,	2.7	9

115	Multiwavelength shearing interferometry for measuring the slopes, curvatures, and shapes of thin films/substrate systems. <i>Optics Letters</i> , 2013 , 38, 5446-9	3	9
114	Surface Effects on the Mechanical Behavior of Buckled Thin Film. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013 , 80,	2.7	9
113	Stretchable Electronics: Epidermal Electronics with Advanced Capabilities in Near-Field Communication (Small 8/2015). <i>Small</i> , 2015 , 11, 905-905	11	8
112	Skin-Like Hybrid Integrated Circuits Conformal to Face for Continuous Respiratory Monitoring. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000145	6.4	8
111	Magnetic and electric bulge-test instrument for the determination of coupling mechanical properties of functional free-standing films and flexible electronics. <i>Review of Scientific Instruments</i> , 2014 , 85, 065117	1.7	8
110	A new dynamic device for low-dimensional materials testing. <i>Review of Scientific Instruments</i> , 2009 , 80, 126108	1.7	8
109	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
108	Challenges and opportunities in chemomechanics of materials: A perspective. <i>Science China Technological Sciences</i> , 2019 , 62, 1385-1387	3.5	7
107	Local wrinkling versus global buckling of stiff film bonded to finite-thick substrate. <i>Extreme Mechanics Letters</i> , 2019 , 29, 100453	3.9	7
106	Full-field measurement of surface topographies and thin film stresses at elevated temperatures by digital gradient sensing method. <i>Applied Optics</i> , 2015 , 54, 721-7	1.7	7
105	Prussian Blue Modified Submicron Structured Gold Electrodes for Amperometric Hydrogen Peroxide Sensing. <i>Electroanalysis</i> , 2018 , 30, 583-592	3	7
104	Wrinkles formation and evolution of nanoribbons with finite length on elastomeric substrate. <i>Applied Physics Letters</i> , 2011 , 99, 141903	3.4	7
103	Multilayer thin films/substrate system with variable film thickness subjected to non-uniform misfit strains. <i>Acta Materialia</i> , 2008 , 56, 5322-5328	8.4	7
102	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	7
101	Flexible Doppler ultrasound device for the monitoring of blood flow velocity. <i>Science Advances</i> , 2021 , 7, eabi9283	14.3	7
100	Flexible Ultrasonic Patch for Accelerating Chronic Wound Healing. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100785	10.1	7
99	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
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