

Huanyu Cheng

List of Publications by Year in descending order

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Version: 2024-02-01

134
papers

17,648
citations

23500

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12910

131
g-index

141
all docs

141
docs citations

141
times ranked

16447
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Smart bioadhesives for wound healing and closure. <i>Bioactive Materials</i> , 2023, 19, 360-375. | 8.6 | 74 |
| 2 | Moisture-resistant MXene-sodium alginate sponges with sustained superhydrophobicity for monitoring human activities. <i>Chemical Engineering Journal</i> , 2022, 432, 134370. | 6.6 | 55 |
| 3 | Hetero-Integration of Silicon Nanomembranes with 2D Materials for Bioresorbable, Wireless Neurochemical System. <i>Advanced Materials</i> , 2022, 34, e2108203. | 11.1 | 28 |
| 4 | Human motion-driven self-powered stretchable sensing platform based on laser-induced graphene foams. <i>Applied Physics Reviews</i> , 2022, 9, . | 5.5 | 77 |
| 5 | Stretchable 3D Wideband Dipole Antennas from Mechanical Assembly for On-Body Communication. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 12855-12862. | 4.0 | 12 |
| 6 | Reconfigurable, Stretchable Strain Sensor with the Localized Controlling of Substrate Modulus by Two-Phase Liquid Metal Cells. <i>Nanomaterials</i> , 2022, 12, 882. | 1.9 | 11 |
| 7 | Intrinsically Breathable and Flexible NO ₂ Gas Sensors Produced by Laser Direct Writing of Self-Assembled Block Copolymers. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 17818-17825. | 4.0 | 39 |
| 8 | Standalone stretchable RF systems based on asymmetric 3D microstrip antennas with on-body wireless communication and energy harvesting. <i>Nano Energy</i> , 2022, 96, 107069. | 8.2 | 67 |
| 9 | Multi-deformable piezoelectric energy nano-generator with high conversion efficiency for subtle body movements. <i>Nano Energy</i> , 2022, 97, 107223. | 8.2 | 16 |
| 10 | Effects of laser processing parameters on properties of laser-induced graphene by irradiating CO ₂ laser on polyimide. <i>Science China Technological Sciences</i> , 2022, 65, 41-52. | 2.0 | 24 |
| 11 | Surface Wettability for Skin-Interfaced Sensors and Devices. <i>Advanced Functional Materials</i> , 2022, 32, . | 7.8 | 67 |
| 12 | Porous graphene foam composite-based dual-mode sensors for underwater temperature and subtle motion detection. <i>Chemical Engineering Journal</i> , 2022, 444, 136631. | 6.6 | 69 |
| 13 | Spin-polarized transport properties of the FeCl ₂ /WSe ₂ /FeCl ₂ van der Waals heterostructure. <i>Applied Physics Letters</i> , 2022, 120, . | 1.5 | 3 |
| 14 | Direct Laser Writing of Microscale Metal Oxide Gas Sensors from Liquid Precursors. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 28163-28173. | 4.0 | 10 |
| 15 | Highly sensitive and broadband photodetectors based on WSe ₂ /MoS ₂ heterostructures with van der Waals contact electrodes. <i>Applied Physics Letters</i> , 2022, 121, . | 1.5 | 8 |
| 16 | Moisture-resistant, stretchable NO _x gas sensors based on laser-induced graphene for environmental monitoring and breath analysis. <i>Microsystems and Nanoengineering</i> , 2022, 8, . | 3.4 | 61 |
| 17 | Multimodal Sensors with Decoupled Sensing Mechanisms. <i>Advanced Science</i> , 2022, 9, . | 5.6 | 120 |
| 18 | Collapse of arbitrary-shaped soft microfluidics. <i>International Journal of Solids and Structures</i> , 2022, 252, 111821. | 1.3 | 3 |

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|----|---|------|-----------|
| 19 | High-energy all-in-one stretchable micro-supercapacitor arrays based on 3D laser-induced graphene foams decorated with mesoporous ZnP nanosheets for self-powered stretchable systems. <i>Nano Energy</i> , 2021, 81, 105609. | 8.2 | 148 |
| 20 | Micro/nanodevices for assessment and treatment in stomatology and ophthalmology. <i>Microsystems and Nanoengineering</i> , 2021, 7, 11. | 3.4 | 19 |
| 21 | Significantly improved conductivity of spinel Co_3O_4 porous nanowires partially substituted by Sn in tetrahedral sites for high-performance quasi-solid-state supercapacitors. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7005-7017. | 5.2 | 31 |
| 22 | Strain-Insensitive Hierarchically Structured Stretchable Microstrip Antennas for Robust Wireless Communication. <i>Nano-Micro Letters</i> , 2021, 13, 108. | 14.4 | 17 |
| 23 | Design of the Magnetic Stamp Film for Electromagnetic-Assisted Transfer Printing. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2021, 88, . | 1.1 | 9 |
| 24 | High-energy all-in-one micro-supercapacitors based on ZnO mesoporous nanosheet-decorated laser-induced porous graphene foams. <i>Journal of Materials Research</i> , 2021, 36, 1927-1936. | 1.2 | 3 |
| 25 | Stretchable wideband dipole antennas and rectennas for RF energy harvesting. <i>Materials Today Physics</i> , 2021, 18, 100377. | 2.9 | 41 |
| 26 | (Invited) Additive Manufacturing of Functional Circuits on 3D Freeform Surfaces. ECS Meeting Abstracts, 2021, MA2021-01, 1107-1107. | 0.0 | 2 |
| 27 | Conformal manufacturing of soft deformable sensors on the curved surface. <i>International Journal of Extreme Manufacturing</i> , 2021, 3, 042001. | 6.3 | 68 |
| 28 | Strain-Tunable Microfluidic Devices with Crack and Wrinkle Microvalves for Microsphere Screening and Fluidic Logic Gates. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 36849-36858. | 4.0 | 12 |
| 29 | Design of non-dimensional parameters in stretchable microstrip antennas with coupled mechanics-electromagnetics. <i>Materials and Design</i> , 2021, 205, 109721. | 3.3 | 10 |
| 30 | Fabricating functional circuits on 3D freeform surfaces via intense pulsed light-induced zinc mass transfer. <i>Materials Today</i> , 2021, 50, 24-34. | 8.3 | 98 |
| 31 | Highly sensitive piezoresistive pressure sensors based on laser-induced graphene with molybdenum disulfide nanoparticles. <i>Science China Technological Sciences</i> , 2021, 64, 2408-2414. | 2.0 | 17 |
| 32 | Laser-induced graphene non-enzymatic glucose sensors for on-body measurements. <i>Biosensors and Bioelectronics</i> , 2021, 193, 113606. | 5.3 | 112 |
| 33 | Wearable electronic devices for glaucoma monitoring and therapy. <i>Materials and Design</i> , 2021, 212, 110183. | 3.3 | 9 |
| 34 | Wearable Pressure Sensors Based on MXene/Tissue Papers for Wireless Human Health Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 60531-60543. | 4.0 | 121 |
| 35 | Novel gas sensing platform based on a stretchable laser-induced graphene pattern with self-heating capabilities. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6487-6500. | 5.2 | 135 |
| 36 | Circumferential buckling and postbuckling analysis of thin films integrated on a soft cylindrical substrate with surface relief structures. <i>Extreme Mechanics Letters</i> , 2020, 35, 100624. | 2.0 | 4 |

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|----|---|-----|-----------|
| 37 | Bioinspired, multifunctional dual-mode pressure sensors as electronic skin for decoding complex loading processes and human motions. <i>Nano Energy</i> , 2020, 78, 105337. | 8.2 | 121 |
| 38 | Stretchable, ultrasensitive, and low-temperature NO ₂ sensors based on MoS ₂ @rGO nanocomposites. <i>Materials Today Physics</i> , 2020, 15, 100265. | 2.9 | 40 |
| 39 | Stretchable gas sensors for detecting biomarkers from humans and exposed environments. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 133, 116085. | 5.8 | 32 |
| 40 | Biodegradable, flexible silicon nanomembrane-based NO _x gas sensor system with record-high performance for transient environmental monitors and medical implants. <i>NPG Asia Materials</i> , 2020, 12, . | 3.8 | 32 |
| 41 | Expandable and implantable bioelectronic complex for analyzing and regulating real-time activity of the urinary bladder. <i>Science Advances</i> , 2020, 6, . | 4.7 | 34 |
| 42 | Stretchable piezoelectric energy harvesters and self-powered sensors for wearable and implantable devices. <i>Biosensors and Bioelectronics</i> , 2020, 168, 112569. | 5.3 | 225 |
| 43 | Wearable Circuits Sintered at Room Temperature Directly on the Skin Surface for Health Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 45504-45515. | 4.0 | 65 |
| 44 | Skin-interfaced microfluidic devices with one-opening chambers and hydrophobic valves for sweat collection and analysis. <i>Lab on A Chip</i> , 2020, 20, 2635-2645. | 3.1 | 66 |
| 45 | Recent Developments of Flexible and Stretchable Electrochemical Biosensors. <i>Micromachines</i> , 2020, 11, 243. | 1.4 | 57 |
| 46 | Efficient coupling of semiconductors into metallic MnO ₂ @CoMn ₂ O ₄ heterostructured electrode with boosted charge transfer for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2020, 347, 136246. | 2.6 | 54 |
| 47 | 3D Printed, Customizable, and Multifunctional Smart Electronic Eyeglasses for Wearable Healthcare Systems and Human-Machine Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 21424-21432. | 4.0 | 68 |
| 48 | Inorganic Dissolvable Bioelectronics. , 2020, , 73-100. | | 0 |
| 49 | Laser-induced porous graphene gas sensing platform toward the electronic nose. , 2020, , . | | 1 |
| 50 | An integrated design approach of piezoelectric vibration energy harvesters. , 2020, , . | | 0 |
| 51 | The transport properties of Cl-decorated arsenene controlled by electric field. <i>Electronic Structure</i> , 2020, 2, 045001. | 1.0 | 0 |
| 52 | Multifunctional Stretchable Sensors for Continuous Monitoring of Long-Term Leaf Physiology and Microclimate. <i>ACS Omega</i> , 2019, 4, 9522-9530. | 1.6 | 76 |
| 53 | Large-area graphene-nanomesh/carbon-nanotube hybrid membranes for ionic and molecular nanofiltration. <i>Science</i> , 2019, 364, 1057-1062. | 6.0 | 475 |
| 54 | Integration of biological systems with electronic-mechanical assemblies. <i>Acta Biomaterialia</i> , 2019, 95, 91-111. | 4.1 | 23 |

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|----|--|-----|-----------|
| 55 | Effects of material properties and geometric parameters on electromagnetic-assisted transfer printing. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 255302. | 1.3 | 8 |
| 56 | Transfer Printing and its Applications in Flexible Electronic Devices. <i>Nanomaterials</i> , 2019, 9, 283. | 1.9 | 78 |
| 57 | Structural Design for Stretchable Microstrip Antennas. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 8867-8877. | 4.0 | 61 |
| 58 | Flexible and stretchable metal oxide gas sensors for healthcare. <i>Science China Technological Sciences</i> , 2019, 62, 209-223. | 2.0 | 44 |
| 59 | Controlled buckling and postbuckling behaviors of thin film devices suspended on an elastomeric substrate with trapezoidal surface relief structures. <i>International Journal of Solids and Structures</i> , 2019, 160, 96-102. | 1.3 | 14 |
| 60 | Rapid preparation and medical application of wearable Flexible electronics. <i>Guangxue Jingmi Gongcheng/Optics and Precision Engineering</i> , 2019, 27, 1362-1369. | 0.2 | 0 |
| 61 | Recent Development of Flexible and Stretchable Antennas for Bio-Integrated Electronics. <i>Sensors</i> , 2018, 18, 4364. | 2.1 | 42 |
| 62 | Fully Water-Soluble, High-Performance Transient Sensors on a Versatile Galactomannan Substrate Derived from the Endosperm. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36664-36674. | 4.0 | 26 |
| 63 | Tunable Adhesion for Bio-Integrated Devices. <i>Micromachines</i> , 2018, 9, 529. | 1.4 | 15 |
| 64 | Design and Analysis of Magnetic-Assisted Transfer Printing. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2018, 85, . | 1.1 | 18 |
| 65 | Real Time Analysis of Bioanalytes in Healthcare, Food, Zoology and Botany. <i>Sensors</i> , 2018, 18, 5. | 2.1 | 32 |
| 66 | Flexible Conductive Composite Integrated with Personal Earphone for Wireless, Real-Time Monitoring of Electrophysiological Signs. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 21184-21190. | 4.0 | 52 |
| 67 | Water-driven actuation of <i>Ornithoctonus huwena</i> spider silk fibers. <i>Applied Physics Letters</i> , 2017, 110, . | 1.5 | 8 |
| 68 | Synthetic Melanin E-Ink. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 16553-16560. | 4.0 | 39 |
| 69 | Assembly of Heterogeneous Materials for Biology and Electronics: From Bio-Inspiration to Bio-Integration. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2017, 139, . | 1.2 | 12 |
| 70 | Buckling analysis of stiff thin films suspended on a substrate with tripod surface relief structure. <i>Applied Physics Letters</i> , 2017, 111, . | 1.5 | 13 |
| 71 | Reconfigurable systems for multifunctional electronics. <i>Npj Flexible Electronics</i> , 2017, 1, . | 5.1 | 27 |
| 72 | Dissolvable tattoo sensors: from science fiction to a viable technology. <i>Physica Scripta</i> , 2017, 92, 013001. | 1.2 | 20 |

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|----|---|------|-----------|
| 73 | Transfer Printing for Cyber-Manufacturing Systems. Springer Series in Wireless Technology, 2017, , 671-690. | 1.1 | 1 |
| 74 | Graphene Reinforced Carbon Nanotube Networks for Wearable Strain Sensors. Advanced Functional Materials, 2016, 26, 2078-2084. | 7.8 | 328 |
| 75 | Inorganic dissolvable electronics: materials and devices for biomedicine and environment. Journal of Materials Research, 2016, 31, 2549-2570. | 1.2 | 28 |
| 76 | Strain Sensors: Large-Area Ultrathin Graphene Films by Single-Step Marangoni Self-Assembly for Highly Sensitive Strain Sensing Application (Adv. Funct. Mater. 9/2016). Advanced Functional Materials, 2016, 26, 1488-1488. | 7.8 | 2 |
| 77 | A nonlinear mechanics model of bio-inspired hierarchical lattice materials consisting of horseshoe microstructures. Journal of the Mechanics and Physics of Solids, 2016, 90, 179-202. | 2.3 | 220 |
| 78 | Bioresorbable silicon electronics for transient spatiotemporal mapping of electrical activity from the cerebral cortex. Nature Materials, 2016, 15, 782-791. | 13.3 | 400 |
| 79 | Strain Sensing: Graphene Reinforced Carbon Nanotube Networks for Wearable Strain Sensors (Adv.) Tj ETQq1 1 0.784314 rgBT /Over | 7.8 | 328 |
| 80 | Large-Area Ultrathin Graphene Films by Single-Step Marangoni Self-Assembly for Highly Sensitive Strain Sensing Application. Advanced Functional Materials, 2016, 26, 1322-1329. | 7.8 | 326 |
| 81 | Bioresorbable silicon electronic sensors for the brain. Nature, 2016, 530, 71-76. | 13.7 | 778 |
| 82 | Recent development of transient electronics. Theoretical and Applied Mechanics Letters, 2016, 6, 21-31. | 1.3 | 61 |
| 83 | Assembly of micro/nanomaterials into complex, three-dimensional architectures by compressive buckling. Science, 2015, 347, 154-159. | 6.0 | 745 |
| 84 | Stretchable Electronics: Epidermal Electronics with Advanced Capabilities in Near-Field Communication (Small 8/2015). Small, 2015, 11, 905-905. | 5.2 | 8 |
| 85 | Soft network composite materials with deterministic and bio-inspired designs. Nature Communications, 2015, 6, 6566. | 5.8 | 392 |
| 86 | Soft, curved electrode systems capable of integration on the auricle as a persistent brain computer interface. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3920-3925. | 3.3 | 319 |
| 87 | Biodegradable Elastomers and Silicon Nanomembranes/Nanoribbons for Stretchable, Transient Electronics, and Biosensors. Nano Letters, 2015, 15, 2801-2808. | 4.5 | 281 |
| 88 | Dissolution Chemistry and Biocompatibility of Silicon- and Germanium-Based Semiconductors for Transient Electronics. ACS Applied Materials & Interfaces, 2015, 7, 9297-9305. | 4.0 | 147 |
| 89 | Modulated Degradation of Transient Electronic Devices through Multilayer Silk Fibroin Pockets. ACS Applied Materials & Interfaces, 2015, 7, 19870-19875. | 4.0 | 66 |
| 90 | Epidermal Electronics with Advanced Capabilities in Near-Field Communication. Small, 2015, 11, 906-912. | 5.2 | 224 |

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|-----|--|------|-----------|
| 91 | A Simply Analytic Study of Buckled Thin Films on Compliant Substrates. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2014, 81, . | 1.1 | 27 |
| 92 | Mechanics of Interfacial Delamination in Epidermal Electronics Systems. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2014, 81, . | 1.1 | 46 |
| 93 | Mechanics of Solar Module on Structured Substrates. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2014, 81, . | 1.1 | 18 |
| 94 | Multifunctional Skin-Like Electronics for Quantitative, Clinical Monitoring of Cutaneous Wound Healing. <i>Advanced Healthcare Materials</i> , 2014, 3, 1597-1607. | 3.9 | 226 |
| 95 | Dissolution Behaviors and Applications of Silicon Oxides and Nitrides in Transient Electronics. <i>Advanced Functional Materials</i> , 2014, 24, 4427-4434. | 7.8 | 206 |
| 96 | Capacitive Epidermal Electronics for Electrically Safe, Long-Term Electrophysiological Measurements. <i>Advanced Healthcare Materials</i> , 2014, 3, 642-648. | 3.9 | 231 |
| 97 | Surface-Coverage-Dependent Cycle Stability of Core-Shell Nanostructured Electrodes for Use in Lithium Ion Batteries. <i>Advanced Energy Materials</i> , 2014, 4, 1300472. | 10.2 | 18 |
| 98 | Fractal design concepts for stretchable electronics. <i>Nature Communications</i> , 2014, 5, 3266. | 5.8 | 821 |
| 99 | 3D multifunctional integumentary membranes for spatiotemporal cardiac measurements and stimulation across the entire epicardium. <i>Nature Communications</i> , 2014, 5, 3329. | 5.8 | 485 |
| 100 | High-Performance Biodegradable/Transient Electronics on Biodegradable Polymers. <i>Advanced Materials</i> , 2014, 26, 3905-3911. | 11.1 | 359 |
| 101 | Materials and Designs for Wireless Epidermal Sensors of Hydration and Strain. <i>Advanced Functional Materials</i> , 2014, 24, 3846-3854. | 7.8 | 263 |
| 102 | Electrochemical Properties of Si-Ge Heterostructures as an Anode Material for Lithium Ion Batteries. <i>Advanced Functional Materials</i> , 2014, 24, 1458-1464. | 7.8 | 78 |
| 103 | Transient Electronics: Dissolvable Metals for Transient Electronics (<i>Adv. Funct. Mater.</i> 5/2014). <i>Advanced Functional Materials</i> , 2014, 24, 644-644. | 7.8 | 5 |
| 104 | Biomedical Sensors: Materials and Designs for Wireless Epidermal Sensors of Hydration and Strain (<i>Adv. Funct. Mater.</i> 25/2014). <i>Advanced Functional Materials</i> , 2014, 24, 3845-3845. | 7.8 | 4 |
| 105 | Dissolution Chemistry and Biocompatibility of Single-Crystalline Silicon Nanomembranes and Associated Materials for Transient Electronics. <i>ACS Nano</i> , 2014, 8, 5843-5851. | 7.3 | 171 |
| 106 | Rugged and breathable forms of stretchable electronics with adherent composite substrates for transcutaneous monitoring. <i>Nature Communications</i> , 2014, 5, 4779. | 5.8 | 309 |
| 107 | Dissolvable Metals for Transient Electronics. <i>Advanced Functional Materials</i> , 2014, 24, 645-658. | 7.8 | 379 |
| 108 | 25th Anniversary Article: Materials for High-Performance Biodegradable Semiconductor Devices. <i>Advanced Materials</i> , 2014, 26, 1992-2000. | 11.1 | 161 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 109 | Buckling of a stiff thin film on a pre-strained bi-layer substrate. <i>International Journal of Solids and Structures</i> , 2014, 51, 3113-3118. | 1.3 | 52 |
| 110 | Mechanics of finger-tip electronics. <i>Journal of Applied Physics</i> , 2013, 114, 164511. | 1.1 | 19 |
| 111 | Analysis of a concentric coplanar capacitor for epidermal hydration sensing. <i>Sensors and Actuators A: Physical</i> , 2013, 203, 149-153. | 2.0 | 33 |
| 112 | Epidermal Impedance Sensing Sheets for Precision Hydration Assessment and Spatial Mapping. <i>IEEE Transactions on Biomedical Engineering</i> , 2013, 60, 2848-2857. | 2.5 | 95 |
| 113 | Ultrathin conformal devices for precise and continuous thermal characterization of human skin. <i>Nature Materials</i> , 2013, 12, 938-944. | 13.3 | 1,002 |
| 114 | Materials and Optimized Designs for Human-Machine Interfaces Via Epidermal Electronics. <i>Advanced Materials</i> , 2013, 25, 6839-6846. | 11.1 | 649 |
| 115 | Mechanics of ultra-stretchable self-similar serpentine interconnects. <i>Acta Materialia</i> , 2013, 61, 7816-7827. | 3.8 | 183 |
| 116 | An Analytical Model of Reactive Diffusion for Transient Electronics. <i>Advanced Functional Materials</i> , 2013, 23, 3106-3114. | 7.8 | 74 |
| 117 | Stretchable batteries with self-similar serpentine interconnects and integrated wireless recharging systems. <i>Nature Communications</i> , 2013, 4, 1543. | 5.8 | 1,169 |
| 118 | Transient, Biocompatible Electronics and Energy Harvesters Based on ZnO. <i>Small</i> , 2013, 9, 3398-3404. | 5.2 | 342 |
| 119 | Facile Synthesis of Free-Standing Silicon Membranes with Three-Dimensional Nanoarchitecture for Anodes of Lithium Ion Batteries. <i>Nano Letters</i> , 2013, 13, 3340-3346. | 4.5 | 69 |
| 120 | Epidermal Electronics: Materials and Optimized Designs for Human-Machine Interfaces Via Epidermal Electronics (<i>Adv. Mater.</i> 47/2013). <i>Advanced Materials</i> , 2013, 25, 6776-6776. | 11.1 | 11 |
| 121 | A Finite-Deformation Mechanics Theory for Kinetically Controlled Transfer Printing. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013, 80, . | 1.1 | 29 |
| 122 | A Viscoelastic Model for the Rate Effect in Transfer Printing. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013, 80, . | 1.1 | 34 |
| 123 | Enhanced adhesion with pedestal-shaped elastomeric stamps for transfer printing. <i>Applied Physics Letters</i> , 2012, 100, . | 1.5 | 57 |
| 124 | Si/Ge Double-Layered Nanotube Array as a Lithium Ion Battery Anode. <i>ACS Nano</i> , 2012, 6, 303-309. | 7.3 | 225 |
| 125 | A Physically Transient Form of Silicon Electronics. <i>Science</i> , 2012, 337, 1640-1644. | 6.0 | 1,085 |
| 126 | Silicon nanomembranes for fingertip electronics. <i>Nanotechnology</i> , 2012, 23, 344004. | 1.3 | 196 |

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|-----|--|------|-----------|
| 127 | Elastomer Surfaces with Directionally Dependent Adhesion Strength and Their Use in Transfer Printing with Continuous Roll-to-Roll Applications. <i>Advanced Materials</i> , 2012, 24, 2117-2122. | 11.1 | 115 |
| 128 | An analytical model for shear-enhanced adhesiveless transfer printing. <i>Mechanics Research Communications</i> , 2012, 43, 46-49. | 1.0 | 52 |
| 129 | Stretchable, Transparent Graphene Interconnects for Arrays of Microscale Inorganic Light Emitting Diodes on Rubber Substrates. <i>Nano Letters</i> , 2011, 11, 3881-3886. | 4.5 | 307 |
| 130 | An analytical model of strain isolation for stretchable and flexible electronics. <i>Applied Physics Letters</i> , 2011, 98, . | 1.5 | 45 |
| 131 | Shear-enhanced adhesiveless transfer printing for use in deterministic materials assembly. <i>Applied Physics Letters</i> , 2011, 98, . | 1.5 | 127 |
| 132 | Process and wear behavior of monolithic SiC and short carbon fiber-SiC matrix composite. <i>Journal of Materials Science</i> , 2000, 35, 4477-4484. | 1.7 | 9 |
| 133 | Fabrication Procedure for Rugged and Breathable Forms of Stretchable Electronics with Adherent and Composite Substrates. <i>Protocol Exchange</i> , 0, , . | 0.3 | 0 |
| 134 | Controlled Bi-Axial Buckling and Postbuckling of Thin Films Suspended on a Stretchable Substrate With Square Prism Relief Structures. <i>International Journal of Applied Mechanics</i> , 0, , . | 1.3 | 4 |