

# John A Rogers

## List of Publications by Citations

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607  
papers

68,735  
citations

129  
h-index

249  
g-index

690  
ext. papers

79,820  
ext. citations

14.3  
avg, IF

7.94  
L-index

#	Paper	IF	Citations
607	Materials and mechanics for stretchable electronics. <i>Science</i> , <b>2010</b> , 327, 1603-7	33.3	3464
606	Epidermal electronics. <i>Science</i> , <b>2011</b> , 333, 838-43	33.3	3216
605	Nanostructured plasmonic sensors. <i>Chemical Reviews</i> , <b>2008</b> , 108, 494-521	68.1	1995
604	A stretchable form of single-crystal silicon for high-performance electronics on rubber substrates. <i>Science</i> , <b>2006</b> , 311, 208-12	33.3	1369
603	Stretchable and foldable silicon integrated circuits. <i>Science</i> , <b>2008</b> , 320, 507-11	33.3	1280
602	Dissolvable films of silk fibroin for ultrathin conformal bio-integrated electronics. <i>Nature Materials</i> , <b>2010</b> , 9, 511-7	27	1239
601	Transfer printing by kinetic control of adhesion to an elastomeric stamp. <i>Nature Materials</i> , <b>2006</b> , 5, 33-38	27	1093
600	High-resolution electrohydrodynamic jet printing. <i>Nature Materials</i> , <b>2007</b> , 6, 782-9	27	1011
599	Stretchable batteries with self-similar serpentine interconnects and integrated wireless recharging systems. <i>Nature Communications</i> , <b>2013</b> , 4, 1543	17.4	978
598	Omnidirectional printing of flexible, stretchable, and spanning silver microelectrodes. <i>Science</i> , <b>2009</b> , 323, 1590-3	33.3	961
597	A physically transient form of silicon electronics. <i>Science</i> , <b>2012</b> , 337, 1640-4	33.3	862
596	Injectable, cellular-scale optoelectronics with applications for wireless optogenetics. <i>Science</i> , <b>2013</b> , 340, 211-6	33.3	832
595	Ultrathin conformal devices for precise and continuous thermal characterization of human skin. <i>Nature Materials</i> , <b>2013</b> , 12, 938-44	27	826
594	High performance piezoelectric devices based on aligned arrays of nanofibers of poly(vinylidene fluoride-co-trifluoroethylene). <i>Nature Communications</i> , <b>2013</b> , 4, 1633	17.4	821
593	Flexible, foldable, actively multiplexed, high-density electrode array for mapping brain activity in vivo. <i>Nature Neuroscience</i> , <b>2011</b> , 14, 1599-605	25.5	807
592	Soft microfluidic assemblies of sensors, circuits, and radios for the skin. <i>Science</i> , <b>2014</b> , 344, 70-4	33.3	802
591	Controlled buckling of semiconductor nanoribbons for stretchable electronics. <i>Nature Nanotechnology</i> , <b>2006</b> , 1, 201-7	28.7	719

590	A soft, wearable microfluidic device for the capture, storage, and colorimetric sensing of sweat. <i>Science Translational Medicine</i> , <b>2016</b> , 8, 366ra165	17.5	665
589	Fractal design concepts for stretchable electronics. <i>Nature Communications</i> , <b>2014</b> , 5, 3266	17.4	625
588	Multifunctional epidermal electronics printed directly onto the skin. <i>Advanced Materials</i> , <b>2013</b> , 25, 2773-84	17.4	590
587	Materials science. Assembly of micro/nanomaterials into complex, three-dimensional architectures by compressive buckling. <i>Science</i> , <b>2015</b> , 347, 154-9	33.3	587
586	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> , <b>2014</b> , 111, 1927-32	11.5	584
585	Bioresorbable silicon electronic sensors for the brain. <i>Nature</i> , <b>2016</b> , 530, 71-6	50.4	582
584	Materials for multifunctional balloon catheters with capabilities in cardiac electrophysiological mapping and ablation therapy. <i>Nature Materials</i> , <b>2011</b> , 10, 316-23	27	580
583	Highly Sensitive Skin-Mountable Strain Gauges Based Entirely on Elastomers. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 4044-4050	15.6	577
582	Heterogeneous three-dimensional electronics by use of printed semiconductor nanomaterials. <i>Science</i> , <b>2006</b> , 314, 1754-7	33.3	577
581	Conformable amplified lead zirconate titanate sensors with enhanced piezoelectric response for cutaneous pressure monitoring. <i>Nature Communications</i> , <b>2014</b> , 5, 4496	17.4	571
580	Flexible and stretchable electronics for biointegrated devices. <i>Annual Review of Biomedical Engineering</i> , <b>2012</b> , 14, 113-28	12	546
579	Materials and noncoplanar mesh designs for integrated circuits with linear elastic responses to extreme mechanical deformations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 18675-80	11.5	541
578	Synthesis, assembly and applications of semiconductor nanomembranes. <i>Nature</i> , <b>2011</b> , 477, 45-53	50.4	526
577	Soft, stretchable, fully implantable miniaturized optoelectronic systems for wireless optogenetics. <i>Nature Biotechnology</i> , <b>2015</b> , 33, 1280-1286	44.5	510
576	Materials and optimized designs for human-machine interfaces via epidermal electronics. <i>Advanced Materials</i> , <b>2013</b> , 25, 6839-46	24	509
575	Bio-Integrated Wearable Systems: A Comprehensive Review. <i>Chemical Reviews</i> , <b>2019</b> , 119, 5461-5533	68.1	496
574	Waterproof AlInGaP optoelectronics on stretchable substrates with applications in biomedicine and robotics. <i>Nature Materials</i> , <b>2010</b> , 9, 929-37	27	474
573	Stretchable, curvilinear electronics based on inorganic materials. <i>Advanced Materials</i> , <b>2010</b> , 22, 2108-24	24	437

572	GaAs photovoltaics and optoelectronics using releasable multilayer epitaxial assemblies. <i>Nature</i> , <b>2010</b> , 465, 329-33	50.4	427
571	Solution Casting and Transfer Printing Single-Walled Carbon Nanotube Films. <i>Nano Letters</i> , <b>2004</b> , 4, 1643-1647	16.47	423
570	3D multifunctional integumentary membranes for spatiotemporal cardiac measurements and stimulation across the entire epicardium. <i>Nature Communications</i> , <b>2014</b> , 5, 3329	17.4	384
569	Printing, folding and assembly methods for forming 3D mesostructures in advanced materials. <i>Nature Reviews Materials</i> , <b>2017</b> , 2,	73.3	372
568	Polymer Imprint Lithography with Molecular-Scale Resolution. <i>Nano Letters</i> , <b>2004</b> , 4, 2467-2471	11.5	370
567	A mechanically driven form of Kirigami as a route to 3D mesostructures in micro/nanomembranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 11757-64	11.5	344
566	Wireless Optofluidic Systems for Programmable In Vivo Pharmacology and Optogenetics. <i>Cell</i> , <b>2015</b> , 162, 662-74	56.2	326
565	Mechanisms, Capabilities, and Applications of High-Resolution Electrohydrodynamic Jet Printing. <i>Small</i> , <b>2015</b> , 11, 4237-66	11	317
564	Binodal, wireless epidermal electronic systems with in-sensor analytics for neonatal intensive care. <i>Science</i> , <b>2019</b> , 363,	33.3	316
563	Biaxially stretchable "wavy" silicon nanomembranes. <i>Nano Letters</i> , <b>2007</b> , 7, 1655-63	11.5	314
562	Conformal piezoelectric systems for clinical and experimental characterization of soft tissue biomechanics. <i>Nature Materials</i> , <b>2015</b> , 14, 728-36	27	310
561	Skin-integrated wireless haptic interfaces for virtual and augmented reality. <i>Nature</i> , <b>2019</b> , 575, 473-479	50.4	307
560	A conformal, bio-interfaced class of silicon electronics for mapping cardiac electrophysiology. <i>Science Translational Medicine</i> , <b>2010</b> , 2, 24ra22	17.5	299
559	Battery-free, skin-interfaced microfluidic/electronic systems for simultaneous electrochemical, colorimetric, and volumetric analysis of sweat. <i>Science Advances</i> , <b>2019</b> , 5, eaav3294	14.3	299
558	Bioresorbable silicon electronics for transient spatiotemporal mapping of electrical activity from the cerebral cortex. <i>Nature Materials</i> , <b>2016</b> , 15, 782-791	27	296
557	Dissolvable Metals for Transient Electronics. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 645-658	15.6	290
556	Soft network composite materials with deterministic and bio-inspired designs. <i>Nature Communications</i> , <b>2015</b> , 6, 6566	17.4	289
555	High-performance biodegradable/transient electronics on biodegradable polymers. <i>Advanced Materials</i> , <b>2014</b> , 26, 3905-11	24	283

554	Recent progress in flexible and stretchable piezoelectric devices for mechanical energy harvesting, sensing and actuation. <i>Extreme Mechanics Letters</i> , <b>2016</b> , 9, 269-281	3.9	281
553	Stretchable, transparent graphene interconnects for arrays of microscale inorganic light emitting diodes on rubber substrates. <i>Nano Letters</i> , <b>2011</b> , 11, 3881-6	11.5	281
552	Transient, biocompatible electronics and energy harvesters based on ZnO. <i>Small</i> , <b>2013</b> , 9, 3398-404	11	280
551	Microstructured elastomeric surfaces with reversible adhesion and examples of their use in deterministic assembly by transfer printing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 17095-100	11.5	280
550	High-resolution patterns of quantum dots formed by electrohydrodynamic jet printing for light-emitting diodes. <i>Nano Letters</i> , <b>2015</b> , 15, 969-73	11.5	278
549	Battery-free, stretchable optoelectronic systems for wireless optical characterization of the skin. <i>Science Advances</i> , <b>2016</b> , 2, e1600418	14.3	266
548	Semiconductor wires and ribbons for high-performance flexible electronics. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 5524-42	16.4	253
547	Rugged and breathable forms of stretchable electronics with adherent composite substrates for transcutaneous monitoring. <i>Nature Communications</i> , <b>2014</b> , 5, 4779	17.4	245
546	Stretchable GaAs photovoltaics with designs that enable high areal coverage. <i>Advanced Materials</i> , <b>2011</b> , 23, 986-91	24	245
545	Self-assembled three dimensional network designs for soft electronics. <i>Nature Communications</i> , <b>2017</b> , 8, 15894	17.4	238
544	Soft, curved electrode systems capable of integration on the auricle as a persistent brain-computer interface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 3920-5	11.5	238
543	Materials and Designs for Wireless Epidermal Sensors of Hydration and Strain. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 3846-3854	15.6	230
542	Biodegradable elastomers and silicon nanomembranes/nanoribbons for stretchable, transient electronics, and biosensors. <i>Nano Letters</i> , <b>2015</b> , 15, 2801-8	11.5	226
541	Flexible Near-Field Wireless Optoelectronics as Subdermal Implants for Broad Applications in Optogenetics. <i>Neuron</i> , <b>2017</b> , 93, 509-521.e3	13.9	225
540	Silk-based resorbable electronic devices for remotely controlled therapy and in vivo infection abatement. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 17385-9	11.5	223
539	Epidermal mechano-acoustic sensing electronics for cardiovascular diagnostics and human-machine interfaces. <i>Science Advances</i> , <b>2016</b> , 2, e1601185	14.3	220
538	Experimental and Theoretical Studies of Serpentine Microstructures Bonded To Prestrained Elastomers for Stretchable Electronics. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 2028-2037	15.6	220
537	Skin-interfaced systems for sweat collection and analytics. <i>Science Advances</i> , <b>2018</b> , 4, eaar3921	14.3	217

536	A wireless closed-loop system for optogenetic peripheral neuromodulation. <i>Nature</i> , <b>2019</b> , 565, 361-365	50.4	217
535	Morphable 3D mesostructures and microelectronic devices by multistable buckling mechanics. <i>Nature Materials</i> , <b>2018</b> , 17, 268-276	27	216
534	Materials, designs, and operational characteristics for fully biodegradable primary batteries. <i>Advanced Materials</i> , <b>2014</b> , 26, 3879-84	24	211
533	Origami MEMS and NEMS. <i>MRS Bulletin</i> , <b>2016</b> , 41, 123-129	3.2	211
532	Three-dimensional piezoelectric polymer microsystems for vibrational energy harvesting, robotic interfaces and biomedical implants. <i>Nature Electronics</i> , <b>2019</b> , 2, 26-35	28.4	209
531	Capacitive epidermal electronics for electrically safe, long-term electrophysiological measurements. <i>Advanced Healthcare Materials</i> , <b>2014</b> , 3, 642-8	10.1	200
530	Distinct Subpopulations of Nucleus Accumbens Dynorphin Neurons Drive Aversion and Reward. <i>Neuron</i> , <b>2015</b> , 87, 1063-77	13.9	197
529	A curvy, stretchy future for electronics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 10875-6	11.5	196
528	Soft materials in neuroengineering for hard problems in neuroscience. <i>Neuron</i> , <b>2015</b> , 86, 175-86	13.9	195
527	Fabricating Semiconductor Nano/Microwires and Transfer Printing Ordered Arrays of Them onto Plastic Substrates. <i>Nano Letters</i> , <b>2004</b> , 4, 1953-1959	11.5	193
526	Buckling in serpentine microstructures and applications in elastomer-supported ultra-stretchable electronics with high areal coverage. <i>Soft Matter</i> , <b>2013</b> , 9, 8062-8070	3.6	192
525	Epidermal electronics with advanced capabilities in near-field communication. <i>Small</i> , <b>2015</b> , 11, 906-12	11	191
524	Materials and Fabrication Processes for Transient and Bioresorbable High-Performance Electronics. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 4087-4093	15.6	191
523	Electronic sensor and actuator webs for large-area complex geometry cardiac mapping and therapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 19910-5	11.5	190
522	Wireless bioresorbable electronic system enables sustained nonpharmacological neuroregenerative therapy. <i>Nature Medicine</i> , <b>2018</b> , 24, 1830-1836	50.5	190
521	Controlled mechanical buckling for origami-inspired construction of 3D microstructures in advanced materials. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 2629-2639	15.6	188
520	Epidermal photonic devices for quantitative imaging of temperature and thermal transport characteristics of the skin. <i>Nature Communications</i> , <b>2014</b> , 5, 4938	17.4	185
519	Miniaturized Battery-Free Wireless Systems for Wearable Pulse Oximetry. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1604373	15.6	182

518	Deformable, Programmable, and Shape-Memorizing Micro-Optics. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 3299-3306	15.6	178
517	Battery-free, wireless sensors for full-body pressure and temperature mapping. <i>Science Translational Medicine</i> , <b>2018</b> , 10,	17.5	176
516	Multifunctional skin-like electronics for quantitative, clinical monitoring of cutaneous wound healing. <i>Advanced Healthcare Materials</i> , <b>2014</b> , 3, 1597-607	10.1	175
515	An Epidermal Stimulation and Sensing Platform for Sensorimotor Prosthetic Control, Management of Lower Back Exertion, and Electrical Muscle Activation. <i>Advanced Materials</i> , <b>2016</b> , 28, 4462-71	24	173
514	Dissolution Behaviors and Applications of Silicon Oxides and Nitrides in Transient Electronics. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 4427-4434	15.6	170
513	Silicon nanomembranes for fingertip electronics. <i>Nanotechnology</i> , <b>2012</b> , 23, 344004	3.4	168
512	Molecular scale buckling mechanics in individual aligned single-wall carbon nanotubes on elastomeric substrates. <i>Nano Letters</i> , <b>2008</b> , 8, 124-30	11.5	166
511	Nanoscale patterns of oligonucleotides formed by electrohydrodynamic jet printing with applications in biosensing and nanomaterials assembly. <i>Nano Letters</i> , <b>2008</b> , 8, 4210-6	11.5	165
510	Capacitively Coupled Arrays of Multiplexed Flexible Silicon Transistors for Long-Term Cardiac Electrophysiology. <i>Nature Biomedical Engineering</i> , <b>2017</b> , 1,	19	163
509	Stretchable ferroelectric nanoribbons with wavy configurations on elastomeric substrates. <i>ACS Nano</i> , <b>2011</b> , 5, 3326-32	16.7	162
508	Adaptive optoelectronic camouflage systems with designs inspired by cephalopod skins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 12998-3003	11.5	159
507	Double-heterojunction nanorod light-responsive LEDs for display applications. <i>Science</i> , <b>2017</b> , 355, 616-619	19.3	157
506	Wearable Sensors for Biochemical Sweat Analysis. <i>Annual Review of Analytical Chemistry</i> , <b>2019</b> , 12, 1-22	12.5	157
505	High-efficiency, microscale GaN light-emitting diodes and their thermal properties on unusual substrates. <i>Small</i> , <b>2012</b> , 8, 1643-9	11	156
504	A nonlinear mechanics model of bio-inspired hierarchical lattice materials consisting of horseshoe microstructures. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2016</b> , 90, 179-202	5	155
503	Materials for bioresorbable radio frequency electronics. <i>Advanced Materials</i> , <b>2013</b> , 25, 3526-31	24	154
502	Mechanical assembly of complex, 3D mesostructures from releasable multilayers of advanced materials. <i>Science Advances</i> , <b>2016</b> , 2, e1601014	14.3	152
501	Mechanics of ultra-stretchable self-similar serpentine interconnects. <i>Acta Materialia</i> , <b>2013</b> , 61, 7816-7828	18.4	147

500	Compliant and stretchable thermoelectric coils for energy harvesting in miniature flexible devices. <i>Science Advances</i> , <b>2018</b> , 4, eaau5849	14.3	147
499	Fully Biodegradable Microsupercapacitor for Power Storage in Transient Electronics. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700157	21.8	145
498	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> , <b>2017</b> , 9, e443-e443	10.3	145
497	Epidermal devices for noninvasive, precise, and continuous mapping of macrovascular and microvascular blood flow. <i>Science Advances</i> , <b>2015</b> , 1, e1500701	14.3	145
496	Dissolution chemistry and biocompatibility of single-crystalline silicon nanomembranes and associated materials for transient electronics. <i>ACS Nano</i> , <b>2014</b> , 8, 5843-51	16.7	145
495	Holographic patterning of high-performance on-chip 3D lithium-ion microbatteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 6573-8	11.5	144
494	Large-area MRI-compatible epidermal electronic interfaces for prosthetic control and cognitive monitoring. <i>Nature Biomedical Engineering</i> , <b>2019</b> , 3, 194-205	19	144
493	Inkjet Printing of Regenerated Silk Fibroin: From Printable Forms to Printable Functions. <i>Advanced Materials</i> , <b>2015</b> , 27, 4273-9	24	143
492	Waterproof, electronics-enabled, epidermal microfluidic devices for sweat collection, biomarker analysis, and thermography in aquatic settings. <i>Science Advances</i> , <b>2019</b> , 5, eaau6356	14.3	142
491	Fabrication and application of flexible, multimodal light-emitting devices for wireless optogenetics. <i>Nature Protocols</i> , <b>2013</b> , 8, 2413-2428	18.8	142
490	Electronically programmable, reversible shape change in two- and three-dimensional hydrogel structures. <i>Advanced Materials</i> , <b>2013</b> , 25, 1541-6	24	140
489	Thin, Soft, Skin-Mounted Microfluidic Networks with Capillary Bursting Valves for Chrono-Sampling of Sweat. <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1601355	10.1	139
488	Triggered transience of metastable poly(phthalaldehyde) for transient electronics. <i>Advanced Materials</i> , <b>2014</b> , 26, 7637-42	24	139
487	Two-dimensional materials in functional three-dimensional architectures with applications in photodetection and imaging. <i>Nature Communications</i> , <b>2018</b> , 9, 1417	17.4	136
486	Soft, Skin-Integrated Multifunctional Microfluidic Systems for Accurate Colorimetric Analysis of Sweat Biomarkers and Temperature. <i>ACS Sensors</i> , <b>2019</b> , 4, 379-388	9.2	134
485	Skin-interfaced biosensors for advanced wireless physiological monitoring in neonatal and pediatric intensive-care units. <i>Nature Medicine</i> , <b>2020</b> , 26, 418-429	50.5	134
484	Ultrathin, transferred layers of thermally grown silicon dioxide as biofluid barriers for biointegrated flexible electronic systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 11682-11687	11.5	133
483	Efficiency Enhancement of Organic Solar Cells Using Hydrophobic Antireflective Inverted Moth-Eye Nanopatterned PDMS Films. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1301315	21.8	132



482	Optimized structural designs for stretchable silicon integrated circuits. <i>Small</i> , <b>2009</b> , 5, 2841-7	11	131
481	25th anniversary article: materials for high-performance biodegradable semiconductor devices. <i>Advanced Materials</i> , <b>2014</b> , 26, 1992-2000	24	130
480	Assembly of Advanced Materials into 3D Functional Structures by Methods Inspired by Origami and Kirigami: A Review. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1800284	4.6	129
479	Mechanics of Epidermal Electronics. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2012</b> , 79,	2.7	129
478	Materials for flexible bioelectronic systems as chronic neural interfaces. <i>Nature Materials</i> , <b>2020</b> , 19, 590-603	6.3	127
477	Thermally triggered degradation of transient electronic devices. <i>Advanced Materials</i> , <b>2015</b> , 27, 3783-8	24	122
476	Mechanics of noncoplanar mesh design for stretchable electronic circuits. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 123516	2.5	122
475	Bendable GaN high electron mobility transistors on plastic substrates. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 124507	2.5	122
474	Materials and fractal designs for 3D multifunctional integumentary membranes with capabilities in cardiac electrotherapy. <i>Advanced Materials</i> , <b>2015</b> , 27, 1731-7	24	117
473	Inorganic semiconductor nanomaterials for flexible and stretchable bio-integrated electronics. <i>NPG Asia Materials</i> , <b>2012</b> , 4, e15-e15	10.3	116
472	Gecko-Inspired Controllable Adhesive Structures Applied to Micromanipulation. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 1246-1254	15.6	115
471	Bioresorbable pressure sensors protected with thermally grown silicon dioxide for the monitoring of chronic diseases and healing processes. <i>Nature Biomedical Engineering</i> , <b>2019</b> , 3, 37-46	19	115
470	Miniaturized Flexible Electronic Systems with Wireless Power and Near-Field Communication Capabilities. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 4761-4767	15.6	114
469	Dissolution chemistry and biocompatibility of silicon- and germanium-based semiconductors for transient electronics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 9297-305	9.5	113
468	Wireless optoelectronic photometers for monitoring neuronal dynamics in the deep brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E1374-E1383	11.5	113
467	A fluorometric skin-interfaced microfluidic device and smartphone imaging module for in situ quantitative analysis of sweat chemistry. <i>Lab on A Chip</i> , <b>2018</b> , 18, 2178-2186	7.2	113
466	Advanced Materials and Devices for Bioresorbable Electronics. <i>Accounts of Chemical Research</i> , <b>2018</b> , 51, 988-998	24.3	109
465	An analytical study of two-dimensional buckling of thin films on compliant substrates. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 014303	2.5	109

464	Mechano-acoustic sensing of physiological processes and body motions via a soft wireless device placed at the suprasternal notch. <i>Nature Biomedical Engineering</i> , <b>2020</b> , 4, 148-158	19	109
463	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> , <b>2018</b> , 115, 11144-11149	11.5	109
462	CVD-grown monolayer MoS in bioabsorbable electronics and biosensors. <i>Nature Communications</i> , <b>2018</b> , 9, 1690	17.4	108
461	Materials and Device Designs for an Epidermal UV Colorimetric Dosimeter with Near Field Communication Capabilities. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1604465	15.6	108
460	Soft, thin skin-mounted power management systems and their use in wireless thermography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 6131-6	11.5	108
459	Inorganic semiconducting materials for flexible and stretchable electronics. <i>Npj Flexible Electronics</i> , <b>2017</b> , 1,	10.7	107
458	Active, Programmable Elastomeric Surfaces with Tunable Adhesion for Deterministic Assembly by Transfer Printing. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 4476-4484	15.6	107
457	Shear-enhanced adhesiveless transfer printing for use in deterministic materials assembly. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 264104	3.4	106
456	Metal/Polymer Based Stretchable Antenna for Constant Frequency Far-Field Communication in Wearable Electronics. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 6565-6575	15.6	105
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