Dae-Hyeong Kim

List of Publications by Year
in descending order

170	35,546	6254 80	5394 164
papers	citations	h-index	g-index

185	185	185	28051
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bioâ€Inspired Artificial Vision and Neuromorphic Image Processing Devices. Advanced Materials Technologies, 2022, 7, 2100144.	5.8	53
2	Multifunctional Injectable Hydrogel for In Vivo Diagnostic and Therapeutic Applications. ACS Nano, 2022, 16, 554-567.	14.6	49
3	Bio-Inspired Electronic Eyes and Synaptic Photodetectors for Mobile Artificial Vision. , 2022, 1, 76-87.		8
4	Toughness and elasticity from phase separation. Nature Materials, 2022, 21, 266-268.	27.5	2
5	Adaptive Selfâ€Organization of Nanomaterials Enables Strainâ€Insensitive Resistance of Stretchable Metallic Nanocomposites. Advanced Materials, 2022, 34, e2200980.	21.0	30
6	Soft Bioelectronics Based on Nanomaterials. Chemical Reviews, 2022, 122, 5068-5143.	47.7	72
7	Perovskite microcells fabricated using swelling-induced crack propagation for colored solar windows. Nature Communications, 2022, 13, 1946.	12.8	18
8	Materials and design strategies for stretchable electroluminescent devices. Nanoscale Horizons, 2022, 7, 801-821.	8.0	22
9	Soft Bioelectronics Based on Conductive Hydrogel. , 2022, , 377-412.		0
10	Stretchable conductive nanocomposites and their applications in wearable devices. Applied Physics Reviews, 2022, 9, .	11.3	27
11	Wide-range robust wireless power transfer using heterogeneously coupled and flippable neutrals in parity-time symmetry. Science Advances, 2022, 8, .	10.3	13
12	Facile and Scalable Synthesis of Whiskered Gold Nanosheets for Stretchable, Conductive, and Biocompatible Nanocomposites. ACS Nano, 2022, 16, 10431-10442.	14.6	14
13	An amphibious artificial vision system with a panoramic visual field. Nature Electronics, 2022, 5, 452-459.	26.0	40
14	Stretchable colour-sensitive quantum dot nanocomposites for shape-tunable multiplexed phototransistor arrays. Nature Nanotechnology, 2022, 17, 849-856.	31.5	42
15	Toward Full-Color Electroluminescent Quantum Dot Displays. Nano Letters, 2021, 21, 26-33.	9.1	103
16	Soft implantable drug delivery device integrated wirelessly with wearable devices to treat fatal seizures. Science Advances, 2021, 7, .	10.3	107
17	Functionalized Elastomers for Intrinsically Soft and Biointegrated Electronics. Advanced Healthcare Materials, 2021, 10, e2002105.	7.6	36
18	Unconventional Imageâ€Sensing and Lightâ€Emitting Devices for Extended Reality. Advanced Functional Materials, 2021, 31, 2009281.	14.9	23

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19	A Biodegradable Secondary Battery and its Biodegradation Mechanism for Ecoâ€Friendly Energyâ€Storage Systems. Advanced Materials, 2021, 33, e2004902.	21.0	42
20	Nanoscale Materials and Deformable Device Designs for Bioinspired and Biointegrated Electronics. Accounts of Materials Research, 2021, 2, 266-281.	11.7	18
21	Durable and Fatigueâ€Resistant Soft Peripheral Neuroprosthetics for In Vivo Bidirectional Signaling. Advanced Materials, 2021, 33, e2007346.	21.0	37
22	Materials and devices for flexible and stretchable photodetectors and light-emitting diodes. Nano Research, 2021, 14, 2919-2937.	10.4	34
23	Localized Delivery of Theranostic Nanoparticles and Highâ€Energy Photons using Microneedlesâ€onâ€Bioelectronics. Advanced Materials, 2021, 33, e2100425.	21.0	43
24	Tissue-like skin-device interface for wearable bioelectronics by using ultrasoft, mass-permeable, and low-impedance hydrogels. Science Advances, 2021, 7, .	10.3	144
25	Neuroprosthetics: Durable and Fatigueâ€Resistant Soft Peripheral Neuroprosthetics for In Vivo Bidirectional Signaling (Adv. Mater. 20/2021). Advanced Materials, 2021, 33, 2170157.	21.0	1
26	Wireless Power Transfer and Telemetry for Implantable Bioelectronics. Advanced Healthcare Materials, 2021, 10, e2100614.	7.6	41
27	Wearable and Implantable Soft Bioelectronics: Device Designs and Material Strategies. Annual Review of Chemical and Biomolecular Engineering, 2021, 12, 359-391.	6.8	81
28	Highly conductive and elastic nanomembrane for skin electronics. Science, 2021, 373, 1022-1026.	12.6	186
29	Soft Implantable Bioelectronics. , 2021, 3, 1528-1540.		24
30	Three-dimensional foldable quantum dot light-emitting diodes. Nature Electronics, 2021, 4, 671-680.	26.0	43
31	Flexible and biodegradable electronic implants for diagnosis and treatment of brain diseases. Current Opinion in Biotechnology, 2021, 72, 13-21.	6.6	16
32	Wafer-Scale Production of Transition Metal Dichalcogenides and Alloy Monolayers by Nanocrystal Conversion for Large-Scale Ultrathin Flexible Electronics. Nano Letters, 2021, 21, 9153-9163.	9.1	29
33	Materialâ€Based Approaches for the Fabrication of Stretchable Electronics. Advanced Materials, 2020, 32, e1902743.	21.0	243
34	Stretchable Lowâ€Impedance Nanocomposite Comprised of Agâ€“Au Coreâ€“Shell Nanowires and Pt Black for Epicardial Recording and Stimulation. Advanced Materials Technologies, 2020, 5, 1900768.	5.8	43
35	Advances in drug delivery technology for the treatment of glioblastoma multiforme. Journal of Controlled Release, 2020, 328, 350-367.	9.9	58
36	Self-assembly for electronics. MRS Bulletin, 2020, 45, 807-814.	3.5	10

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37	Advances in Soft Bioelectronics for Brain Research and Clinical Neuroengineering. Matter, 2020, 3, 1923-1947.	10.0	48
38	Curved neuromorphic image sensor array using a MoS2-organic heterostructure inspired by the human visual recognition system. Nature Communications, 2020, 11, 5934.	12.8	182
39	Unconventional Device and Material Approaches for Monolithic Biointegration of Implantable Sensors and Wearable Electronics. Advanced Materials Technologies, 2020, 5, .	5.8	37
40	An aquatic-vision-inspired camera based on a monocentric lens and a silicon nanorod photodiode array. Nature Electronics, 2020, 3, 546-553.	26.0	100
41	Sensors in heart-on-a-chip: A review on recent progress. Talanta, 2020, 219, 121269.	5.5	34
42	Facilitated Transdermal Drug Delivery Using Nanocarriers-Embedded Electroconductive Hydrogel Coupled with Reverse Electrodialysis-Driven Iontophoresis. ACS Nano, 2020, 14, 4523-4535.	14.6	83
43	A Facile Fabrication and Transfer Method of Vertically Aligned Carbon Nanotubes on a Mo/Ni Bilayer for Wearable Energy Devices. Advanced Materials Interfaces, 2020, 7, 1902170.	3.7	11
44	Material Design and Fabrication Strategies for Stretchable Metallic Nanocomposites. Small, 2020, 16, e1906270.	10.0	55
45	Wearable Energy Devices: A Facile Fabrication and Transfer Method of Vertically Aligned Carbon Nanotubes on a Mo/Ni Bilayer for Wearable Energy Devices (Adv. Mater. Interfaces 8/2020). Advanced Materials Interfaces, 2020, 7, 2070046.	3.7	0
46	Stretchable Electronics: Materialâ€Based Approaches for the Fabrication of Stretchable Electronics (Adv. Mater. 15/2020). Advanced Materials, 2020, 32, 2070118.	21.0	5
47	Materials engineering, processing, and device application of hydrogel nanocomposites. Nanoscale, 2020, 12, 10456-10473.	5.6	52
48	Ultra-slim, wide field-of-view single lens cameras with designs inspired by an aquatic animal. , 2020, , .		0
49	Piezoresistive Behaviour of Additively Manufactured Multi-Walled Carbon Nanotube/Thermoplastic Polyurethane Nanocomposites. Materials, 2019, 12, 2613.	2.9	27
50	Nanomaterials-based flexible and stretchable bioelectronics. MRS Bulletin, 2019, 44, 643-656.	3.5	30
51	Large scale and integrated platform for digital mass culture of anchorage dependent cells. Nature Communications, 2019, 10, 4824.	12.8	17
52	Soft High-Resolution Neural Interfacing Probes: Materials and Design Approaches. Nano Letters, 2019, 19, 2741-2749.	9.1	59
53	Materials and Design Strategies of Stretchable Electrodes for Electronic Skin and its Applications. Proceedings of the IEEE, 2019, 107, 2185-2197.	21.3	55
54	Materials chemistry in flexible electronics. Chemical Society Reviews, 2019, 48, 1431-1433.	38.1	122

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55	Bioresorbable Electronic Implants: History, Materials, Fabrication, Devices, and Clinical Applications. Advanced Healthcare Materials, 2019, 8, e1801660.	7.6	86
56	Wearable and Implantable Devices for Cardiovascular Healthcare: from Monitoring to Therapy Based on Flexible and Stretchable Electronics. Advanced Functional Materials, 2019, 29, 1808247.	14.9	345
57	Flexible, sticky, and biodegradable wireless device for drug delivery to brain tumors. Nature Communications, 2019, 10, 5205.	12.8	148
58	Stretchable conductive nanocomposite based on alginate hydrogel and silver nanowires for wearable electronics. APL Materials, 2019, 7, .	5.1	97
59	Wearable and Implantable Soft Bioelectronics Using Two-Dimensional Materials. Accounts of Chemical Research, 2019, 52, 73-81.	15.6	143
60	Wireless metronomic photodynamic therapy. Nature Biomedical Engineering, 2019, 3, 5-6.	22.5	27
61	Solution-processed thin films of semiconducting carbon nanotubes and their application to soft electronics. Nanotechnology, 2019, 30, 132001.	2.6	32
62	High-performance stretchable conductive nanocomposites: materials, processes, and device applications. Chemical Society Reviews, 2019, 48, 1566-1595.	38.1	400
63	Flexible quantum dot light-emitting diodes for next-generation displays. Npj Flexible Electronics, 2018, 2, .	10.7	261
64	Deformable inorganic semiconductor. Nature Materials, 2018, 17, 388-389.	27.5	16
65	Bioinspired Artificial Eyes: Optic Components, Digital Cameras, and Visual Prostheses. Advanced Functional Materials, 2018, 28, 1705202.	14.9	174
66	Enzymeâ€Based Glucose Sensor: From Invasive to Wearable Device. Advanced Healthcare Materials, 2018, 7, e1701150.	7.6	483
67	Extremely Vivid, Highly Transparent, and Ultrathin Quantum Dot Lightâ€Emitting Diodes. Advanced Materials, 2018, 30, 1703279.	21.0	157
68	Nanomaterials for bioelectronics and integrated medical systems. Korean Journal of Chemical Engineering, 2018, 35, 1-11.	2.7	76
69	Device-assisted transdermal drug delivery. Advanced Drug Delivery Reviews, 2018, 127, 35-45.	13.7	237
70	Multifunctional Wearable System that Integrates Sweatâ€Based Sensing and Vitalâ€Sign Monitoring to Estimate Preâ€/Postâ€Exercise Glucose Levels. Advanced Functional Materials, 2018, 28, 1805754.	14.9	143
71	Blood Sugar Monitoring: Multifunctional Wearable System that Integrates Sweatâ€Based Sensing and Vitalâ€Sign Monitoring to Estimate Preâ€/Postâ€Exercise Glucose Levels (Adv. Funct. Mater. 47/2018). Advanced Functional Materials, 2018, 28, 1870336.	14.9	2
72	Flexible and Stretchable Smart Display: Materials, Fabrication, Device Design, and System Integration. Advanced Functional Materials, 2018, 28, 1801834.	14.9	357

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73	Highly conductive, stretchable and biocompatible Agâ€“Au coreâ€“sheath nanowire composite for wearable and implantable bioelectronics. Nature Nanotechnology, 2018, 13, 1048-1056.	31.5	695
74	Stretchable electronics on another level. Nature Electronics, 2018, 1, 440-441.	26.0	15
75	Artificial Eyes: Bioinspired Artificial Eyes: Optic Components, Digital Cameras, and Visual Prostheses (Adv. Funct. Mater. 24/2018). Advanced Functional Materials, 2018, 28, 1870168.	14.9	8
76	Wearable/disposable sweat-based glucose monitoring device with multistage transdermal drug delivery module. Science Advances, 2017, 3, e1601314.	10.3	836
77	Wearable Sensing Systems with Mechanically Soft Assemblies of Nanoscale Materials. Advanced Materials Technologies, 2017, 2, 1700053.	5.8	89
78	Fully Stretchable Optoelectronic Sensors Based on Colloidal Quantum Dots for Sensing Photoplethysmographic Signals. ACS Nano, 2017, 11, 5992-6003.	14.6	115
79	The quest for miniaturized soft bioelectronic devices. Nature Biomedical Engineering, 2017, 1, .	22.5	103
80	Wearable Force Touch Sensor Array Using a Flexible and Transparent Electrode. Advanced Functional Materials, 2017, 27, 1605286.	14.9	151
81	Stretchable Electrode Based on Laterally Combed Carbon Nanotubes for Wearable Energy Harvesting and Storage Devices. Advanced Functional Materials, 2017, 27, 1704353.	14.9	110
82	Flexible Displays: Ultrathin Quantum Dot Display Integrated with Wearable Electronics (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	21.0	1
83	Perovskite Thin Films: Highâ€Resolution Spinâ€onâ€Patterning of Perovskite Thin Films for a Multiplexed Image Sensor Array (Adv. Mater. 40/2017). Advanced Materials, 2017, 29, .	21.0	2
84	Wearable Electrocardiogram Monitor Using Carbon Nanotube Electronics and Color-Tunable Organic Light-Emitting Diodes. ACS Nano, 2017, 11, 10032-10041.	14.6	197
85	Ultrathin Quantum Dot Display Integrated with Wearable Electronics. Advanced Materials, 2017, 29, 1700217.	21.0	187
86	Human eye-inspired soft optoelectronic device using high-density MoS2-graphene curved image sensor array. Nature Communications, 2017, 8, 1664.	12.8	381
87	Ultraâ€Wideband Multiâ€Dyeâ€Sensitized Upconverting Nanoparticles for Information Security Application. Advanced Materials, 2017, 29, 1603169.	21.0	153
88	Highâ€Resolution Spinâ€onâ€Patterning of Perovskite Thin Films for a Multiplexed Image Sensor Array. Advanced Materials, 2017, 29, 1702902.	21.0	148
89	Stretchable Electronics: Stretchable and Transparent Biointerface Using Cellâ€Sheetâ€“Graphene Hybrid for Electrophysiology and Therapy of Skeletal Muscle (Adv. Funct. Mater. 19/2016). Advanced Functional Materials, 2016, 26, 3182-3182.	14.9	4
90	Designed Assembly and Integration of Colloidal Nanocrystals for Device Applications. Advanced Materials, 2016, 28, 1176-1207.	21.0	211

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91	Soft bioelectronics using nanomaterials. Proceedings of SPIE, 2016, , .	0.8	0
92	High-Performance Wearable Bioelectronics Integrated with Functional Nanomaterials. Microsystems and Nanosystems, 2016, , 151-171.	0.1	2
93	Epidermal Electronics: Cephalopodâ€Inspired Miniaturized Suction Cups for Smart Medical Skin (Adv.) Tj ETQq1 1 0.784314 rgBT /Ov	7.6	4
94	Nanomaterialâ€Based Soft Electronics for Healthcare Applications. ChemNanoMat, 2016, 2, 1006-1017.	2.8	65
95	Cephalopodâ€Inspired Miniaturized Suction Cups for Smart Medical Skin. Advanced Healthcare Materials, 2016, 5, 80-87.	7.6	175
96	Colloidal Synthesis of Uniformâ€Sized Molybdenum Disulfide Nanosheets for Waferâ€Scale Flexible Nonvolatile Memory. Advanced Materials, 2016, 28, 9326-9332.	21.0	151
97	Electromechanical cardioplasty using a wrapped elasto-conductive epicardial mesh. Science Translational Medicine, 2016, 8, 344ra86.	12.4	181
98	Recent Advances in Flexible and Stretchable Bioâ€Electronic Devices Integrated with Nanomaterials. Advanced Materials, 2016, 28, 4203-4218.	21.0	894
99	Flexible and stretchable electronics for wearable healthcare devices and minimally invasive surgical tools. , 2016, , .		0
100	Stretchable and Transparent Biointerface Using Cellâ€Sheetâ€“Graphene Hybrid for Electrophysiology and Therapy of Skeletal Muscle. Advanced Functional Materials, 2016, 26, 3207-3217.	14.9	123
101	A graphene-based electrochemical device with thermoresponsive microneedles for diabetes monitoring and therapy. Nature Nanotechnology, 2016, 11, 566-572.	31.5	1,394
102	Deformable devices with integrated functional nanomaterials for wearable electronics. Nano Convergence, 2016, 3, 4.	12.1	54
103	Voices of biotech. Nature Biotechnology, 2016, 34, 270-275.	17.5	4
104	A wearable multiplexed silicon nonvolatile memory array using nanocrystal charge confinement. Science Advances, 2016, 2, e1501101.	10.3	139
105	Skin Electronics: Oxide Nanomembrane Hybrids with Enhanced Mechano- and Thermo-Sensitivity for Semitransparent Epidermal Electronics (Adv. Healthcare Mater. 7/2015). Advanced Healthcare Materials, 2015, 4, 991-991.	7.6	4
106	Wearable Fall Detector using Integrated Sensors and Energy Devices. Scientific Reports, 2015, 5, 17081.	3.3	74
107	Thermally Controlled, Patterned Graphene Transfer Printing for Transparent and Wearable Electronic/Optoelectronic System. Advanced Functional Materials, 2015, 25, 7109-7118.	14.9	155
108	Oxide Nanomembrane Hybrids with Enhanced Mechanoâ€•and Thermoâ€Sensitivity for Semitransparent Epidermal Electronics. Advanced Healthcare Materials, 2015, 4, 992-997.	7.6	49

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109	Stretchable Heater Using Ligand-Exchanged Silver Nanowire Nanocomposite for Wearable Articular Thermotherapy. ACS Nano, 2015, 9, 6626-6633.	14.6	462
110	Injection and unfolding. Nature Nanotechnology, 2015, 10, 570-571.	31.5	13
111	Stretchable inorganic nanomembrane electronics for healthcare devices. Proceedings of SPIE, 2015, , .	0.8	0
112	An endoscope with integrated transparent bioelectronics and theranostic nanoparticles for colon cancer treatment. Nature Communications, 2015, 6, 10059.	12.8	159
113	Multifunctional Cell-Culture Platform for Aligned Cell Sheet Monitoring, Transfer Printing, and Therapy. ACS Nano, 2015, 9, 2677-2688.	14.6	72
114	Wearable Electronics: Transparent and Stretchable Interactive Human Machine Interface Based on Patterned Graphene Heterostructures (Adv. Funct. Mater. 3/2015). Advanced Functional Materials, 2015, 25, 374-374.	14.9	13
115	Stretchable Carbon Nanotube Charge-Trap Floating-Gate Memory and Logic Devices for Wearable Electronics. ACS Nano, 2015, 9, 5585-5593.	14.6	124
116	Bioresorbable Electronic Stent Integrated with Therapeutic Nanoparticles for Endovascular Diseases. ACS Nano, 2015, 9, 5937-5946.	14.6	203
117	Wearable redâ€“greenâ€“blue quantum dot light-emitting diode array using high-resolution intaglio transfer printing. Nature Communications, 2015, 6, 7149.	12.8	536
118	Transparent and Stretchable Interactive Human Machine Interface Based on Patterned Graphene Heterostructures. Advanced Functional Materials, 2015, 25, 375-383.	14.9	496
119	Fabricâ€Based Integrated Energy Devices for Wearable Activity Monitors. Advanced Materials, 2014, 26, 6329-6334.	21.0	311
120	Stretchable silicon nanoribbon electronics for skin prosthesis. Nature Communications, 2014, 5, 5747.	12.8	1,145
121	Reverseâ€Micelleâ€Induced Porous Pressureâ€Sensitive Rubber for Wearable Humanâ€“Machine Interfaces. Advanced Materials, 2014, 26, 4825-4830.	21.0	564
122	High performance bio-integrated devices. , 2014, , .		0
123	Mechanics of stretchable electronics on balloon catheter under extreme deformation. International Journal of Solids and Structures, 2014, 51, 1555-1561.	2.7	28
124	Multifunctional wearable devices for diagnosis and therapy of movement disorders. Nature Nanotechnology, 2014, 9, 397-404.	31.5	1,246
125	Flexible and Stretchable Electronics Paving the Way for Soft Robotics. Soft Robotics, 2014, 1, 53-62.	8.0	436
126	Next-generation flexible neural and cardiac electrode arrays. Biomedical Engineering Letters, 2014, 4, 95-108.	4.1	33

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127	A high-density, high-channel count, multiplexed Î¼ECoG array for auditory-cortex recordings. Journal of Neurophysiology, 2014, 112, 1566-1583.	1.8	90
128	Heterogeneous stacking of nanodot monolayers by dry pick-and-place transfer and its applications in quantum dot light-emitting diodes. Nature Communications, 2013, 4, 2637.	12.8	99
129	Sizing by Weighing: Characterizing Sizes of Ultrasmall-Sized Iron Oxide Nanocrystals Using MALDI-TOF Mass Spectrometry. Journal of the American Chemical Society, 2013, 135, 2407-2410.	13.7	57
130	An Analytical Model of Reactive Diffusion for Transient Electronics. Advanced Functional Materials, 2013, 23, 3106-3114.	14.9	74
131	Materials and Fabrication Processes for Transient and Bioresorbable Highâ€Performance Electronics. Advanced Functional Materials, 2013, 23, 4087-4093.	14.9	222
132	Mechanics of Epidermal Electronics. Journal of Applied Mechanics, Transactions ASME, 2012, 79, .	2.2	161
133	Electronic sensor and actuator webs for large-area complex geometry cardiac mapping and therapy. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19910-19915.	7.1	209
134	Materials for stretchable electronics in bioinspired and biointegrated devices. MRS Bulletin, 2012, 37, 226-235.	3.5	184
135	A Physically Transient Form of Silicon Electronics. Science, 2012, 337, 1640-1644.	12.6	1,085
136	Thin, Flexible Sensors and Actuators as â€˜Instrumentedâ€™ Surgical Sutures for Targeted Wound Monitoring and Therapy. Small, 2012, 8, 3263-3268.	10.0	141
137	Flexible Electronics: Materials and Designs for Wirelessly Powered Implantable Lightâ€Emitting Systems (Small 18/2012). Small, 2012, 8, 2770-2770.	10.0	2
138	Inorganic semiconductor nanomaterials for flexible and stretchable bio-integrated electronics. NPG Asia Materials, 2012, 4, e15-e15.	7.9	134
139	Materials and Designs for Wirelessly Powered Implantable Lightâ€Emitting Systems. Small, 2012, 8, 2812-2818.	10.0	93
140	Flexible and Stretchable Electronics for Biointegrated Devices. Annual Review of Biomedical Engineering, 2012, 14, 113-128.	12.3	631
141	Epidermal Electronics. Science, 2011, 333, 838-843.	12.6	3,944
142	Stretchable, Transparent Graphene Interconnects for Arrays of Microscale Inorganic Light Emitting Diodes on Rubber Substrates. Nano Letters, 2011, 11, 3881-3886.	9.1	307
143	Materials for multifunctional balloon catheters with capabilities in cardiac electrophysiological mapping and ablation therapy. Nature Materials, 2011, 10, 316-323.	27.5	670
144	Flexible, foldable, actively multiplexed, high-density electrode array for mapping brain activity in vivo. Nature Neuroscience, 2011, 14, 1599-1605.	14.8	981

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145	Flexible biomedical devices for mapping cardiac and neural electrophysiology. , 2011, , .		0
146	Microscale, printed LEDs for unusual lighting and display systems. , 2011, , .		0
147	Millimeter-scale epileptiform spike patterns and their relationship to seizures. , 2011, 2011, 761-4.		3
148	A strain-isolation design for stretchable electronics. Acta Mechanica Sinica/Lixue Xuebao, 2010, 26, 881-888.	3.4	34
149	Stretchable, Curvilinear Electronics Based on Inorganic Materials. Advanced Materials, 2010, 22, 2108-2124.	21.0	525
150	Dissolvable films of silk fibroin for ultrathin conformal bio-integrated electronics. Nature Materials, 2010, 9, 511-517.	27.5	1,501
151	Waterproof AlInGaP optoelectronics on stretchable substrates with applications in biomedicine andÂrobotics. Nature Materials, 2010, 9, 929-937.	27.5	557
152	A Conformal, Bio-Interfaced Class of Silicon Electronics for Mapping Cardiac Electrophysiology. Science Translational Medicine, 2010, 2, 24ra22.	12.4	344
153	A stretchable electrode array for non-invasive, skin-mounted measurement of electrocardiography (ECG), electromyography (EMG) and electroencephalography (EEG). , 2010, 2010, 6405-8.		12
154	Stretchable Silicon Electronics and Their Integration with Rubber, Plastic, Paper, Vinyl, Leather and Fabric Substrates. Materials Research Society Symposia Proceedings, 2009, 1196, 1.	0.1	0
155	Ultrathin Silicon Circuits With Strainâ€Isolation Layers and Mesh Layouts for Highâ€Performance Electronics on Fabric, Vinyl, Leather, and Paper. Advanced Materials, 2009, 21, 3703-3707.	21.0	375
156	Optimized Structural Designs for Stretchable Silicon Integrated Circuits. Small, 2009, 5, 2841-2847.	10.0	153
157	Bend, Buckle, and Fold: Mechanical Engineering with Nanomembranes. ACS Nano, 2009, 3, 498-501.	14.6	44
158	Silicon electronics on silk as a path to bioresorbable, implantable devices. Applied Physics Letters, 2009, 95, 133701.	3.3	245
159	Printed Assemblies of Inorganic Light-Emitting Diodes for Deformable and Semitransparent Displays. Science, 2009, 325, 977-981.	12.6	748
160	Semiconductor Wires and Ribbons for Highâ€•Performance Flexible Electronics. Angewandte Chemie - International Edition, 2008, 47, 5524-5542.	13.8	279
161	Printable, Flexible, and Stretchable Forms of Ultrananocrystalline Diamond with Applications in Thermal Management. Advanced Materials, 2008, 20, 2171-2176.	21.0	76
162	Stretchable Electronics: Materials Strategies and Devices. Advanced Materials, 2008, 20, 4887-4892.	21.0	565

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163	Stretchable and Foldable Silicon Integrated Circuits. Science, 2008, 320, 507-511.	12.6	1,474
164	Materials and noncoplanar mesh designs for integrated circuits with linear elastic responses to extreme mechanical deformations. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 18675-18680.	7.1	625
165	Local versus global buckling of thin films on elastomeric substrates. Applied Physics Letters, 2008, 93, .	3.3	73
166	Complementary Logic Gates and Ring Oscillators on Plastic Substrates by Use of Printed Ribbons of Single-Crystalline Silicon. IEEE Electron Device Letters, 2008, 29, 73-76.	3.9	85
167	Complementary metal oxide silicon integrated circuits incorporating monolithically integrated stretchable wavy interconnects. Applied Physics Letters, 2008, 93, 044102.	3.3	39
168	Bendable integrated circuits on plastic substrates by use of printed ribbons of single-crystalline silicon. Applied Physics Letters, 2007, 90, 213501.	3.3	78
169	Reduction of Large Particles in Ceria Slurry by Aging and Selective Sedimentation and its Effect on Shallow Trench Isolation Chemical Mechanical Planarization. Japanese Journal of Applied Physics, 2006, 45, 6790-6794.	1.5	12
170	The Effect of Cerium Precursor Agglomeration on the Synthesis of Ceria Particles and Its Influence on Shallow Trench Isolation Chemical Mechanical Polishing Performance. Japanese Journal of Applied Physics, 2005, 44, 8422-8426.	1.5	9