

Ravinder Dahiya

List of Publications by Year in descending order

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331
papers

12,674
citations

28190

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29081

104
g-index

339
all docs

339
docs citations

339
times ranked

9154
citing authors

#	ARTICLE	IF	CITATIONS
1	Tactile Sensingâ€”From Humans to Humanoids. IEEE Transactions on Robotics, 2010, 26, 1-20.	7.3	1,379
2	Technologies for Printing Sensors and Electronics Over Large Flexible Substrates: A Review. IEEE Sensors Journal, 2015, 15, 3164-3185.	2.4	963
3	Directions Toward Effective Utilization of Tactile Skin: A Review. IEEE Sensors Journal, 2013, 13, 4121-4138.	2.4	356
4	Metal oxides based electrochemical pH sensors: Current progress and future perspectives. Progress in Materials Science, 2020, 109, 100635.	16.0	286
5	A Wearable Supercapacitor Based on Conductive PEDOT:PSSâ€”Coated Cloth and a Sweat Electrolyte. Advanced Materials, 2020, 32, e1907254.	11.1	282
6	Robotic tactile perception of object properties: A review. Mechatronics, 2017, 48, 54-67.	2.0	269
7	Energyâ€”Autonomous, Flexible, and Transparent Tactile Skin. Advanced Functional Materials, 2017, 27, 1606287.	7.8	264
8	Ultra-thin chips for high-performance flexible electronics. Npj Flexible Electronics, 2018, 2, .	5.1	249
9	Stretchable wireless system for sweat pH monitoring. Biosensors and Bioelectronics, 2018, 107, 192-202.	5.3	247
10	Energy autonomous electronic skin. Npj Flexible Electronics, 2019, 3, .	5.1	245
11	Glycineâ€”Chitosan-Based Flexible Biodegradable Piezoelectric Pressure Sensor. ACS Applied Materials & Interfaces, 2020, 12, 9008-9016.	4.0	244
12	Large-Area Soft e-Skin: The Challenges Beyond Sensor Designs. Proceedings of the IEEE, 2019, 107, 2016-2033.	16.4	214
13	Robotic Tactile Sensing. , 2013, , .		180
14	Flexible self-charging supercapacitor based on graphene-Ag-3D graphene foam electrodes. Nano Energy, 2018, 51, 604-612.	8.2	176
15	Flexible Tactile Sensors Using Screen-Printed P(VDF-TrFE) and MWCNT/PDMS Composites. IEEE Sensors Journal, 2015, 15, 3146-3155.	2.4	171
16	New materials and advances in making electronic skin for interactive robots. Advanced Robotics, 2015, 29, 1359-1373.	1.1	155
17	Piezoelectric oxide semiconductor field effect transistor touch sensing devices. Applied Physics Letters, 2009, 95, .	1.5	145
18	E-Skin: From Humanoids to Humans [Point of View]. Proceedings of the IEEE, 2019, 107, 247-252.	16.4	144

#	ARTICLE	IF	CITATIONS
19	Flexible potentiometric pH sensors for wearable systems. RSC Advances, 2020, 10, 8594-8617.	1.7	144
20	Printable stretchable interconnects. Flexible and Printed Electronics, 2017, 2, 013003.	1.5	141
21	Biodegradable Materials for Sustainable Health Monitoring Devices. ACS Applied Bio Materials, 2021, 4, 163-194.	2.3	133
22	Towards Tactile Sensing System on Chip for Robotic Applications. IEEE Sensors Journal, 2011, 11, 3216-3226.	2.4	126
23	Smart Bandage With Wireless Strain and Temperature Sensors and Batteryless NFC Tag. IEEE Internet of Things Journal, 2021, 8, 5093-5100.	5.5	123
24	Textile-Based Potentiometric Electrochemical pH Sensor for Wearable Applications. Biosensors, 2019, 9, 14.	2.3	116
25	Printed Temperature Sensor Based on PEDOT: PSS-Graphene Oxide Composite. IEEE Sensors Journal, 2020, 20, 7525-7531.	2.4	116
26	Printed flexible electrochemical pH sensors based on CuO nanorods. Sensors and Actuators B: Chemical, 2018, 263, 50-58.	4.0	108
27	Fingerprint-Enhanced Capacitive-Piezoelectric Flexible Sensing Skin to Discriminate Static and Dynamic Tactile Stimuli. Advanced Intelligent Systems, 2019, 1, 1900051.	3.3	108
28	Synthesis of Large Area Graphene for High Performance in Flexible Optoelectronic Devices. Scientific Reports, 2015, 5, 16744.	1.6	107
29	Robotic Hands with Intrinsic Tactile Sensing via 3D Printed Soft Pressure Sensors. Advanced Intelligent Systems, 2020, 2, 1900080.	3.3	101
30	Nanowire FET Based Neural Element for Robotic Tactile Sensing Skin. Frontiers in Neuroscience, 2017, 11, 501.	1.4	97
31	PEDOT:PSS Microchannel-Based Highly Sensitive Stretchable Strain Sensor. Advanced Electronic Materials, 2020, 6, 2000445.	2.6	97
32	Tactile-Data Classification of Contact Materials Using Computational Intelligence. IEEE Transactions on Robotics, 2011, 27, 635-639.	7.3	91
33	Flexible Electronic Skin: From Humanoids to Humans [Scanning the Issue]. Proceedings of the IEEE, 2019, 107, 2011-2015.	16.4	89
34	Bendable Ultra-Thin Chips on Flexible Foils. IEEE Sensors Journal, 2013, 13, 4030-4037.	2.4	88
35	Graphene-Graphite Polyurethane Composite Based High-Energy Density Flexible Supercapacitors. Advanced Science, 2019, 6, 1802251.	5.6	87
36	Piezoelectric graphene field effect transistor pressure sensors for tactile sensing. Applied Physics Letters, 2018, 113, .	1.5	86

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37	Energy Autonomous Sweat-Based Wearable Systems. <i>Advanced Materials</i> , 2021, 33, e2100899.	11.1	85
38	Neuro-inspired electronic skin for robots. <i>Science Robotics</i> , 2022, 7, .	9.9	80
39	Large-Area Self-Assembly of Silica Microspheres/Nanospheres by Temperature-Assisted Dip-Coating. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 3058-3068.	4.0	78
40	Smart Tactile Gloves for Haptic Interaction, Communication, and Rehabilitation. <i>Advanced Intelligent Systems</i> , 2022, 4, 2100091.	3.3	78
41	PDMS residues-free micro/macrostructures on flexible substrates. <i>Microelectronic Engineering</i> , 2015, 136, 57-62.	1.1	77
42	High-performance printed electronics based on inorganic semiconducting nano to chip scale structures. <i>Nano Convergence</i> , 2020, 7, 33.	6.3	77
43	Graphene Based Low Voltage Field Effect Transistor Coupled with Biodegradable Piezoelectric Material Based Dynamic Pressure Sensor. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 54035-54040.	4.0	75
44	ZnO Nanowires-Based Flexible UV Photodetector System for Wearable Dosimetry. <i>IEEE Sensors Journal</i> , 2018, 18, 7881-7888.	2.4	74
45	Self-Powered Active Sensing Based on Triboelectric Generators. <i>Advanced Materials</i> , 2022, 34, e2200724.	11.1	72
46	Soft eSkin: distributed touch sensing with harmonized energy and computing. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190156.	1.6	70
47	Printed Chipless Antenna as Flexible Temperature Sensor. <i>IEEE Internet of Things Journal</i> , 2021, 8, 5101-5110.	5.5	70
48	Origin of the contact force-dependent response of triboelectric nanogenerators. <i>Nano Energy</i> , 2021, 83, 105829.	8.2	70
49	Wearable Assistive Tactile Communication Interface Based on Integrated Touch Sensors and Actuators. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 1344-1352.	2.7	68
50	Wafer Scale Transfer of Ultrathin Silicon Chips on Flexible Substrates for High Performance Bendable Systems. <i>Advanced Electronic Materials</i> , 2018, 4, 1700277.	2.6	67
51	Flexible Pressure Sensors Based on Screen-Printed P(VDF-TrFE) and P(VDF-TrFE)/MWCNTs. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2015, 28, 486-493.	1.4	66
52	SensAct: The Soft and Squishy Tactile Sensor with Integrated Flexible Actuator. <i>Advanced Intelligent Systems</i> , 2021, 3, 1900145.	3.3	64
53	SPICE model for lossy piezoelectric polymers. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009, 56, 387-395.	1.7	60
54	van der Waals Contact Engineering of Graphene Field-Effect Transistors for Large-Area Flexible Electronics. <i>ACS Nano</i> , 2019, 13, 3257-3268.	7.3	60

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55	Multifunctional Electronic Skin With a Stack of Temperature and Pressure Sensor Arrays. IEEE Sensors Journal, 2021, 21, 26243-26251.	2.4	60
56	A unified contact force-dependent model for triboelectric nanogenerators accounting for surface roughness. Nano Energy, 2020, 76, 105067.	8.2	57
57	Fabrication of single crystal silicon micro-/nanostructures and transferring them to flexible substrates. Microelectronic Engineering, 2012, 98, 502-507.	1.1	55
58	CMOS Vertical Hall Magnetic Sensors on Flexible Substrate. IEEE Sensors Journal, 2016, 16, 8736-8743.	2.4	55
59	Mesoporous chitosan based conformable and resorbable biostrip for dopamine detection. Biosensors and Bioelectronics, 2020, 147, 111781.	5.3	55
60	Heterogeneous integration of contact-printed semiconductor nanowires for high-performance devices on large areas. Microsystems and Nanoengineering, 2018, 4, 22.	3.4	54
61	Intelligent In-Vehicle Interaction Technologies. Advanced Intelligent Systems, 2022, 4, 2100122.	3.3	54
62	TiO ₂ -Based Thick Film pH Sensor. IEEE Sensors Journal, 2017, 17, 248-255.	2.4	53
63	Metal Coated Conductive Fabrics with Graphite Electrodes and Biocompatible Gel Electrolyte for Wearable Supercapacitors. Advanced Materials Technologies, 2020, 5, 1901107.	3.0	53
64	Tactile Sensing Chips With POSFET Array and Integrated Interface Electronics. IEEE Sensors Journal, 2014, 14, 3448-3457.	2.4	52
65	Energy Generating Electronic Skin With Intrinsic Tactile Sensing Without Touch Sensors. IEEE Transactions on Robotics, 2021, 37, 683-690.	7.3	52
66	Ferroelectric-assisted high-performance triboelectric nanogenerators based on electrospun P(VDF-TrFE) composite nanofibers with barium titanate nanofillers. Nano Energy, 2021, 90, 106600.	8.2	52
67	Modeling of CMOS Devices and Circuits on Flexible Ultrathin Chips. IEEE Transactions on Electron Devices, 2017, 64, 2038-2046.	1.6	51
68	Printed synaptic transistor-based electronic skin for robots to feel and learn. Science Robotics, 2022, 7, .	9.9	51
69	Bending induced electrical response variations in ultra-thin flexible chips and device modeling. Applied Physics Reviews, 2017, 4, .	5.5	49
70	Flexible Printed Reference Electrodes for Electrochemical Applications. Advanced Materials Technologies, 2018, 3, 1800252.	3.0	49
71	Smart Bandage with Inductor-Capacitor Resonant Tank Based Printed Wireless Pressure Sensor on Electrospun Poly(L-lactide) Nanofibers. Advanced Electronic Materials, 2022, 8, .	2.6	47
72	Direct roll transfer printed silicon nanoribbon arrays based high-performance flexible electronics. Npj Flexible Electronics, 2021, 5, .	5.1	46

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73	Electronic Waste Reduction Through Devices and Printed Circuit Boards Designed for Circularity. , 2022, 1, 4-23.		46
74	Multifunctional sensor based on organic field-effect transistor and ferroelectric poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70	1.4	45
75	Developing Electronic Skin with the Sense of Touch. Information Display, 2015, 31, 6-10.	0.1	44
76	Flexible Strain and Temperature Sensing NFC Tag for Smart Food Packaging Applications. IEEE Sensors Journal, 2021, 21, 26406-26414.	2.4	43
77	Textile-Based Stretchable Microstrip Antenna with Intrinsic Strain Sensing. ACS Applied Electronic Materials, 2021, 3, 2233-2246.	2.0	42
78	Tacsac: A Wearable Haptic Device with Capacitive Touch-Sensing Capability for Tactile Display. Sensors, 2020, 20, 4780.	2.1	41
79	Supercapacitor electrode fabrication through chemical and physical routes. Journal of Power Sources, 2022, 519, 230744.	4.0	40
80	Ultrathin Ion-Sensitive Field-Effect Transistor Chips with Bending-Induced Performance Enhancement. ACS Applied Electronic Materials, 2020, 2, 2601-2610.	2.0	39
81	Natural Jute Fibre-Based Supercapacitors and Sensors for Eco-Friendly Energy Autonomous Systems. Advanced Sustainable Systems, 2021, 5, 2000286.	2.7	39
82	Chitosan-Graphene Oxide-Based Ultra-Thin and Flexible Sensor for Diabetic Wound Monitoring. IEEE Sensors Journal, 2020, 20, 6794-6801.	2.4	38
83	Rapid Assessment of SARS-CoV-2 Transmission Risk for Fecally Contaminated River Water. ACS ES&T Water, 2021, 1, 949-957.	2.3	38
84	Bioinspired Inchworm- and Earthworm-like Soft Robots with Intrinsic Strain Sensing. Advanced Intelligent Systems, 2022, 4, 2100092.	3.3	35
85	Flexible MISFET Devices From Transfer Printed Si Microwires and Spray Coating. IEEE Journal of the Electron Devices Society, 2016, 4, 189-196.	1.2	34
86	Triboelectric Nanogenerator With Enhanced Performance via an Optimized Low Permittivity Substrate. IEEE Sensors Journal, 2020, 20, 6856-6862.	2.4	34
87	Omnidirectional Stretchable Inorganic-Material-Based Electronics with Enhanced Performance. Advanced Electronic Materials, 2020, 6, 2000058.	2.6	34
88	Nanoribbon-Based Flexible High-Performance Transistors Fabricated at Room Temperature. Advanced Electronic Materials, 2020, 6, 1901023.	2.6	34
89	Disposable Electrochemical Sensor Using Graphene Oxide-Chitosan Modified Carbon-Based Electrodes for the Detection of Tyrosine. IEEE Sensors Journal, 2021, 21, 26226-26233.	2.4	34
90	Soft Capacitive Pressure Sensor With Enhanced Sensitivity Assisted by ZnO NW Interlayers and Airgap. IEEE Sensors Journal, 2022, 22, 3974-3982.	2.4	34

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91	Screen Printed Thick Film Reference Electrodes for Electrochemical Sensing. IEEE Sensors Journal, 2018, 18, 7779-7785.	2.4	33
92	Device Modelling for Bendable Piezoelectric FET-Based Touch Sensing System. IEEE Transactions on Circuits and Systems I: Regular Papers, 2016, 63, 2200-2208.	3.5	32
93	Connected Sensors, Innovative Sensor Deployment, and Intelligent Data Analysis for Online Water Quality Monitoring. IEEE Internet of Things Journal, 2021, 8, 13805-13824.	5.5	32
94	Microdroplet based disposable sensor patch for detection of α -amylase in human blood serum. Biosensors and Bioelectronics, 2020, 165, 112333.	5.3	30
95	Influence of solvent molecular geometry on the growth of nanostructures. Journal of Colloid and Interface Science, 2020, 570, 322-331.	5.0	30
96	Fused Deposition Modeling-Based 3D-Printed Electrical Interconnects and Circuits. Advanced Intelligent Systems, 2021, 3, 2100102.	3.3	30
97	Deposition, processing and characterization of P(VDF-TrFE) thin films for sensing applications. , 2008, , .		28
98	POSFET Based Tactile Sensor Arrays. , 2007, , .		27
99	Kirigami and Mogul-Patterned Ultra-Stretchable High-Performance ZnO Nanowires-Based Photodetector. Advanced Materials Technologies, 2022, 7, 2100804.	3.0	27
100	Ultra-Thin Chips with Printed Interconnects on Flexible Foils. Advanced Electronic Materials, 2022, 8, .	2.6	27
101	Temperature Compensated Tactile Sensing Using MOSFET With P(VDF-TrFE)/BaTiO ₃ Capacitor as Extended Gate. IEEE Sensors Journal, 2019, 19, 435-442.	2.4	26
102	Probing With and Into Fingerprints. Journal of Neurophysiology, 2010, 104, 1-3.	0.9	25
103	Monolayer MoSe ₂ -Based Tunneling Field Effect Transistor for Ultrasensitive Strain Sensing. IEEE Transactions on Electron Devices, 2020, 67, 2140-2146.	1.6	24
104	3D Printed Interdigitated Capacitor Based Tilt Sensor. IEEE Sensors Journal, 2021, 21, 26252-26260.	2.4	24
105	Tactile Sensing Technologies. , 2013, , 79-136.		23
106	A wearable fabric-based RFID skin temperature monitoring patch. , 2016, , .		23
107	GlasVent-”The Rapidly Deployable Emergency Ventilator. Global Challenges, 2020, 4, 2000046.	1.8	23
108	Graphite-Based Bioinspired Piezoresistive Soft Strain Sensors with Performance Optimized for Low Strain Values. ACS Applied Materials & Interfaces, 2021, 13, 61610-61619.	4.0	23

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109	Wearable Capacitive-Based Wrist-Worn Gesture Sensing System. , 2017, , .		22
110	Inorganic semiconducting nanowires for green energy solutions. Current Opinion in Chemical Engineering, 2021, 34, 100753.	3.8	22
111	POSFET devices based tactile sensing arrays. , 2010, , .		21
112	SmartFingerBraille: A tactile sensing and actuation based communication glove for deafblind people. , 2017, , .		21
113	Touch Sensor Based on Flexible AlN Piezocapacitor Coupled With MOSFET. IEEE Sensors Journal, 2020, 20, 6810-6817.	2.4	21
114	Flexible Iridium Oxide Based pH Sensor Integrated With Inductively Coupled Wireless Transmission System for Wearable Applications. IEEE Sensors Journal, 2020, 20, 5130-5138.	2.4	21
115	Bioinspired Distributed Energy in Robotics and Enabling Technologies. Advanced Intelligent Systems, 2023, 5, 2100036.	3.3	21
116	Guest Editorial Special Issue on Robotic Sense of Touch. , 2011, 27, 385-388.		20
117	MnO _x -Electrodeposited Fabric-Based Stretchable Supercapacitors with Intrinsic Strain Sensing. ACS Applied Materials & Interfaces, 2021, 13, 47581-47592.	4.0	20
118	Flexible Tactile Sensors Using AlN and MOSFETs Based Ultra-Thin Chips. IEEE Sensors Journal, 2023, 23, 23988-23994.	2.4	20
119	Development of fingertip tactile sensing chips for humanoid robots. , 2009, , .		19
120	A flexible chip with embedded intelligence. Nature Electronics, 2020, 3, 358-359.	13.1	19
121	Flexible FETs using ultrathin Si microwires embedded in solution processed dielectric and metal layers. Journal of Micromechanics and Microengineering, 2015, 25, 125019.	1.5	18
122	Multisensory Smart Glove for Tactile Feedback in Prosthetic Hand. Procedia Engineering, 2016, 168, 1605-1608.	1.2	18
123	Development of a highly controlled system for large-area, directional printing of quasi-1D nanomaterials. Microsystems and Nanoengineering, 2021, 7, 82.	3.4	18
124	In Tandem Contactless Transfer Printing for High-Performance Transient Electronics. Advanced Electronic Materials, 2022, 8, .	2.6	18
125	Engineered chitosan for improved 3D tissue growth through Paxillin-FAK-ERK activation. International Journal of Energy Production and Management, 2020, 7, 141-151.	1.9	17
126	Epidermal electronics – flexible electronics for biomedical applications. , 0, , 245-255.		16

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127	Ultra-Thin Silicon based Piezoelectric Capacitive Tactile Sensor. Procedia Engineering, 2016, 168, 662-665.	1.2	16
128	Effect of Dielectric and Stiffness of Soft Material between the Electrodes of a Capacitive Pressure Sensor on its Performance. , 2020, , .		16
129	Active Visuo-Tactile Interactive Robotic Perception for Accurate Object Pose Estimation in Dense Clutter. IEEE Robotics and Automation Letters, 2022, 7, 4686-4693.	3.3	16
130	Porous Elastomer Based Wide Range Flexible Pressure Sensor for Autonomous Underwater Vehicles. IEEE Sensors Journal, 2022, 22, 9914-9921.	2.4	16
131	System approach: A paradigm for robotic tactile sensing. , 2008, , .		15
132	Microchannel based Flexible Dynamic Strain Sensor. , 2019, , .		15
133	Printed Temperature Sensor based on Graphene Oxide/PEDOT:PSS. , 2019, , .		15
134	Flexible Strain Sensor with NFC Tag for Food Packaging. , 2020, , .		15
135	Stretchable resistive pressure sensor based on CNT-PDMS nanocomposites. , 2015, , .		14
136	Towards bendable CMOS magnetic sensors. , 2015, , .		14
137	3D Touch Surface for Interactive Pseudo-Holographic Displays. Advanced Intelligent Systems, 2022, 4, 2000126.	3.3	14
138	Carbon Nanotube/PEDOT: PSS Composite-based Flexible Temperature Sensor with Enhanced Response and Recovery Time. , 2020, , .		14
139	3D Printed Soft and Flexible Insole With Intrinsic Pressure Sensing Capability. IEEE Sensors Journal, 2023, 23, 23995-24003.	2.4	14
140	Soft Robotic Finger with Integrated Stretchable Strain Sensor. , 2018, , .		13
141	Polydimethylsiloxane as polymeric protective coating for fabrication of ultra-thin chips. Microelectronic Engineering, 2020, 221, 111157.	1.1	13
142	Ultra-High Gauge Factor Strain Sensor with Wide-Range Stretchability. Advanced Intelligent Systems, 2022, 4, .	3.3	13
143	Conformable tactile sensing using screen printed P(VDF-TrFE) and MWCNT-PDMS composites. , 2014, , .		12
144	Upper limb prosthetic control using toe gesture sensors. , 2015, , .		12

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145	Microdroplet Based Organic Vapour Sensor on a Disposable GO-Chitosan Flexible Substrate. , 2019, , .		12
146	Prosthetic Hand with Biomimetic Tactile Sensing and Force Feedback. , 2019, , .		12
147	Microdroplet-Based Organic Vapour Sensor on a Disposable GO-Chitosan Flexible Substrate. IEEE Sensors Journal, 2020, 20, 7494-7502.	2.4	12
148	3D Printed Robotic Hand with Embedded Touch Sensors. , 2020, , .		12
149	Tactile sensing arrays for humanoid robots. , 2007, , .		11
150	Bio-inspired tactile sensing arrays. , 2009, , .		11
151	POSFET tactile sensing chips using CMOS technology. , 2013, , .		11
152	Towards flexible asymmetric MSM structures using Si microwires through contact printing. Semiconductor Science and Technology, 2017, 32, 085013.	1.0	11
153	Metal Coated Fabric Based Asymmetric Supercapacitor for Wearable Applications. IEEE Sensors Journal, 2021, 21, 26208-26214.	2.4	11
154	Printed GaAs Microstructuresâ€Based Flexible Highâ€Performance Broadband Photodetectors. Advanced Materials Technologies, 2022, 7, .	3.0	11
155	Graphene Oxide-Chitosan Based Ultra-Flexible Electrochemical Sensor for Detection of Serotonin. , 2018, , .		10
156	Inductance-Based Flexible Pressure Sensor for Assistive Gloves. , 2018, , .		10
157	3D Printed Interconnects on Bendable Substrates for 3D Circuits. , 2019, , .		10
158	Ultraâ€thin ISFETâ€based sensing systems. Electrochemical Science Advances, 2022, 2, .	1.2	10
159	Highâ€Performance nâ€Channel Printed Transistors on Biodegradable Substrate for Transient Electronics. Advanced Electronic Materials, 2022, 8, .	2.6	10
160	Piezoelectric polymer oxide semiconductor field effect transistor (POSFET) devices for touch sensing. , 2009, , .		9
161	SPICE model for Piezoelectric Bender Generators. , 2009, , .		9
162	Analysis of self-powered vibration-based energy scavenging system. , 2010, , .		9

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163	CMOS Implementation of POSFET Tactile Sensing Arrays with on Chip Readout. , 2010, , .		9
164	Electronic Skin. , 2015, , .		9
165	Multifunctional flexible PVDF-TrFE/BaTiO ₃ based tactile sensor for touch and temperature monitoring. , 2017, , .		9
166	ZnO based Screen Printed Aqueous Ammonia Sensor for Water Quality Monitoring. , 2019, , .		9
167	E-skin and wearable systems for health care. , 2020, , 133-178.		9
168	AlN Ultra-Thin Chips Based Flexible Piezoelectric Tactile Sensors. , 2021, , .		9
169	PMMA sacrificial layer based reliable debonding of ultra-thin chips after lapping. Microelectronic Engineering, 2021, 247, 111588.	1.1	9
170	High-performance p-channel transistors on flexible substrate using direct roll transfer stamping. Japanese Journal of Applied Physics, 2022, 61, SC1042.	0.8	9
171	Development and characterization of touch sensing devices for robotic applications. , 2009, , .		8
172	Interface electronics design for POSFET devices based tactile sensing systems. , 2010, , .		8
173	Bendable ultra-thin silicon chips on foil. , 2012, , .		8
174	Tuning electrical conductivity of CNT-PDMS nanocomposites for flexible electronic applications. , 2015, , .		8
175	Optimal geometry of CMOS voltage-mode and current-mode vertical magnetic hall sensors. , 2015, , .		8
176	Chitosan-Graphene Oxide Based Ultra-Thin Conformable Sensing Patch for Cell-Health Monitoring. , 2018, , .		8
177	Healing and monitoring of chronic wounds: advances in wearable technologies. , 2021, , 85-99.		8
178	Tactile Sensing: Definitions and Classification. , 2013, , 13-17.		8
179	3D Printed Wearable Exoskeleton Human-Machine Interfacing Device. , 2020, , .		8
180	Smart contact lens using passive structures. , 2014, , .		7

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181	Tactile sensors with integrated piezoelectric polymer and low voltage organic thin-film transistors. , 2014, , .		7
182	Graphene oxide-chitosan based flexible biosensor. , 2017, , .		7
183	3D Printed Phalanx Packaged with Embedded Pressure Sensor. , 2018, , .		7
184	Ultra-Thin Chips With ISFET Array for Continuous Monitoring of Body Fluids Ph. IEEE Transactions on Biomedical Circuits and Systems, 2021, 15, 1174-1185.	2.7	7
185	Hybrid Integration of Screen-Printed RFID Tags and Rigid Microchip on Paper. , 2022, 1, 107-113.		7
186	Biomimetic tactile sensing. , 2015, , 69-91.		6
187	Printing of high concentration nanocomposites (MWNTs/PDMS) using 3D-printed shadow masks. , 2015, , .		6
188	Towards bendable piezoelectric oxide semiconductor field effect transistor based touch sensor. , 2016, , .		6
189	Flexible AlN Coupled MOSFET Device for Touch Sensing. , 2018, , .		6
190	3D Printed Capacitive Pressure Sensing Sole for Anthropomorphic Robots. , 2021, , .		6
191	Pseudo-Hologram with AeroHaptic Feedback for Interactive Volumetric Displays. Advanced Intelligent Systems, 2022, 4, 2100090.	3.3	6
192	At-Home Computer-Aided Myoelectric Training System for Wrist Prosthesis. Lecture Notes in Computer Science, 2016, , 284-293.	1.0	6
193	3D-printed elastomer foam-based soft capacitive pressure sensors. , 2022, , .		6
194	POSFET Tactile Sensing Arrays using CMOS Technology. Procedia Engineering, 2012, 47, 894-897.	1.2	5
195	Stretchable interconnects using screen printed nanocomposites of MWCNTs with PDMS and P(VDF-TrFE). , 2015, , .		5
196	Metal-organic Dual Layer Structure for Stretchable Interconnects. Procedia Engineering, 2016, 168, 1559-1562.	1.2	5
197	Bio-Organic Glycine Based Flexible Piezoelectric Stress Sensor for Wound Monitoring. , 2018, , .		5
198	Ultra-Thin Chips with Current-Mode ISFET Array for Continuous Monitoring of Body Fluids pH. , 2021, , .		5

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199	Deep Active Cross-Modal Visuo-Tactile Transfer Learning for Robotic Object Recognition. IEEE Robotics and Automation Letters, 2022, 7, 9557-9564.	3.3	5
200	Device modelling of bendable MOS transistors. , 2016, , .		4
201	Towards flexible magnetoelectronics for robotic applications. , 2017, , .		4
202	Simulation study of junctionless silicon nanoribbon FET for high-performance printable electronics. , 2017, , .		4
203	Bending effects in a flexible dual gated graphene FET: A Verilog-A model implementation. , 2017, , .		4
204	Electrochemical sensors with screen printed Ag AgCl KCl reference electrodes. , 2017, , .		4
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206	Tactile Communication System for the Interaction between Deafblind and Robots. , 2018, , .		4
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