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Biodegradable and flexible arterial-pulse sensor for the wireless monitoring of blood flow

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#	Paper	IF	Citations
444	All-Textile Electronic Skin Enabled by Highly Elastic Spacer Fabric and Conductive Fibers. <b>2019</b> , 11, 333	36-333	<b>46</b> <sub>1</sub> 4
443	Wearable Sweat Band for Noninvasive Levodopa Monitoring. <b>2019</b> , 19, 6346-6351		73
442	Fully Printed, Wireless, Stretchable Implantable Biosystem toward Batteryless, Real-Time Monitoring of Cerebral Aneurysm Hemodynamics. <b>2019</b> , 6, 1901034		26
441	Fabrication and Characterization of a Wireless Bioresorbable Pressure Sensor. <b>2019</b> , 4, 1900428		12
440	Bio-Multifunctional Smart Wearable Sensors for Medical Devices. <b>2019</b> , 1, 1900040		58
439	Ultralow-Cost, Highly Sensitive, and Flexible Pressure Sensors Based on Carbon Black and Airlaid Paper for Wearable Electronics. <b>2019</b> , 11, 33370-33379		72
438	Multifunctional Fibers to Shape Future Biomedical Devices. <b>2019</b> , 29, 1902834		51
437	Bioinspired Interlocked Structure-Induced High Deformability for Two-Dimensional Titanium Carbide (MXene)/Natural Microcapsule-Based Flexible Pressure Sensors. <b>2019</b> , 13, 9139-9147		192
436	Futuristic medical implants using bioresorbable materials and devices. <b>2019</b> , 142, 111489		32
435	Electronic Skin for Closed-Loop Systems. <b>2019</b> , 13, 12287-12293		59
434	Electronic Skin: Recent Progress and Future Prospects for Skin-Attachable Devices for Health Monitoring, Robotics, and Prosthetics. <b>2019</b> , 31, e1904765		498
433	Recent Progress in Wireless Sensors for Wearable Electronics. <b>2019</b> , 19,		49
432	Flexible and wearable healthcare sensors for visual reality health-monitoring. <b>2019</b> , 1, 411-427		15
431	Stretchable and Fully Degradable Semiconductors for Transient Electronics. 2019, 5, 1884-1891		41
430	Core/Shell Piezoelectric Nanofibers with Spatial Self-Orientated Phase Nanocrystals for Real-Time Micropressure Monitoring of Cardiovascular Walls. <b>2019</b> , 13, 10062-10073		38
429	Tactile Sensors for Advanced Intelligent Systems. <b>2019</b> , 1, 1900090		47
428	Investigation of Low-Current Direct Stimulation for Rehabilitation Treatment Related to Muscle Function Loss Using Self-Powered TENG System. <b>2019</b> , 6, 1900149		58

427	A highly sensitive biodegradable pressure sensor based on nanofibrous dielectric. 2019, 294, 140-147	31
426	Platform for wireless pressure sensing with built-in battery and instant visualization. <b>2019</b> , 62, 230-238	32
425	Polymer Chemistries Underpinning Materials for Skin-Inspired Electronics. <b>2019</b> , 52, 3965-3974	39
424	Graphene-based stretchable/wearable self-powered touch sensor. <b>2019</b> , 62, 259-267	78
423	A Flexible e-skin based on micro-structured PZT thin films prepared via a low-temperature PLD method. <b>2019</b> , 7, 4760-4769	18
422	An LC Wireless Microfluidic Sensor Based on Low Temperature Co-Fired Ceramic (LTCC) Technology. <b>2019</b> , 19,	17
421	Healthcare electronic skin devices. <b>2019</b> , 40, 030401	1
420	Highly stretchable and autonomously healable epidermal sensor based on multi-functional hydrogel frameworks. <b>2019</b> , 7, 5949-5956	109
419	Microfabricated bioelectronic systems for prevention, diagnostics and treatment of neurological disorders. <b>2019</b> ,	2
418	Large area flexible pressure/strain sensors and arrays using nanomaterials and printing techniques. <b>2019</b> , 6, 28	25
417	Wearable and Implantable Electronics: Moving toward Precision Therapy. <b>2019</b> , 13, 12280-12286	83
416	Screen-printed soft triboelectric nanogenerator with porous PDMS and stretchable PEDOT:PSS electrode. <b>2019</b> , 40, 112601	12
415	Flexible, sticky, and biodegradable wireless device for drug delivery to brain tumors. <b>2019</b> , 10, 5205	91
414	Anodized Aluminum Oxide-Assisted Low-Cost Flexible Capacitive Pressure Sensors Based on Double-Sided Nanopillars by a Facile Fabrication Method. <b>2019</b> , 11, 48594-48603	49
413	Stumbling through the Research Wilderness, Standard Methods To Shine Light on Electrically Conductive Nanocomposites for Future Healthcare Monitoring. <b>2019</b> , 13, 13627-13636	22
412	Nature-inspired rollable electronics. <b>2019</b> , 11,	5
411	Printing of wirelessly rechargeable solid-state supercapacitors for soft, smart contact lenses with continuous operations. <b>2019</b> , 5, eaay0764	67
410	Ultrasensitive Fingertip-Contacted Pressure Sensors To Enable Continuous Measurement of Epidermal Pulse Waves on Ubiquitous Object Surfaces. <b>2019</b> , 11, 46399-46407	15

409	A stretchable, conformable, and biocompatible graphene strain sensor based on a structured hydrogel for clinical application. <b>2019</b> , 7, 27099-27109	32
408	A biodegradable wireless blood-flow sensor. <i>Nature Biomedical Engineering</i> , <b>2019</b> , 3, 7-8	5
407	Rational Design of Capacitive Pressure Sensors Based on Pyramidal Microstructures for Specialized Monitoring of Biosignals. <b>2020</b> , 30, 1903100	131
406	Flexible Hybrid Sensors for Health Monitoring: Materials and Mechanisms to Render Wearability. <b>2020</b> , 32, e1902133	114
405	Spatially modulated stiffness on hydrogels for soft and stretchable integrated electronics. <b>2020</b> , 7, 203-213	39
404	Recent progress in tactile sensors and their applications in intelligent systems. <b>2020</b> , 65, 70-88	65
403	Transfer Printing of Electronic Functions on Arbitrary Complex Surfaces. <b>2020</b> , 14, 12-20	19
402	A wearable, waterproof, and highly sensitive strain sensor based on three-dimensional graphene/carbon black/Ni sponge for wirelessly monitoring human motions. <b>2020</b> , 8, 2074-2085	34
401	Reviews of wearable healthcare systems: Materials, devices and system integration. <b>2020</b> , 140, 100523	107
400	Biodegradable nanofiber-based piezoelectric transducer. <b>2020</b> , 117, 214-220	59
399	Temperature and Strain Compensation for Flexible Sensors Based on Thermosensation. <b>2020</b> , 12, 1953-1961	14
398	Emerging Soft Conductors for Bioelectronic Interfaces. <b>2020</b> , 30, 1907184	38
397	Development Trends and Perspectives of Future Sensors and MEMS/NEMS. 2019, 11,	74
396	Exploration of the proton conduction behavior in natural neutral polysaccharides for biodegradable organic synaptic transistors. <b>2020</b> , 8, 16542-16550	8
395	Biomimetic, biocompatible and robust silk Fibroin-MXene film with stable 3D cross-link structure for flexible pressure sensors. <b>2020</b> , 78, 105252	74
394	Organic Bioelectronics: Using Highly Conjugated Polymers to Interface with Biomolecules, Cells, and Tissues in the Human Body. <b>2020</b> , 5, 2000384	19
393	Towards Microscale NFC-Enabled IoT Sensors: Physical and MAC Layer Design Analysis. <b>2020</b> , 8, 88076-88084	3
392	Reconfigurable and Recyclable Circuits Based on Liquid Passive Components. <b>2020</b> , 6, 1901388	5

## (2020-2020)

391	Microtransfer Printing High-Efficiency GaAs Photovoltaic Cells onto Silicon for Wireless Power Applications. <b>2020</b> , 5, 2000048	2
390	Progress in wearable electronics/photonicsMoving toward the era of artificial intelligence and internet of things. <b>2020</b> , 2, 1131-1162	143
389	Recent advances in bioelectronics chemistry. <b>2020</b> , 49, 7978-8035	30
388	Bioinspired conductive cellulose liquid-crystal hydrogels as multifunctional electrical skins. <b>2020</b> , 117, 18310-18316	90
387	Flexible Pressure Sensors for Biomedical Applications: From Ex Vivo to In Vivo. <b>2020</b> , 7, 2000743	23
386	Highly Sensitive Interlocked Piezoresistive Sensors Based on Ultrathin Ordered Nanocone Array Films and Their Sensitivity Simulation. <b>2020</b> , 12, 55169-55180	11
385	Thin-Film Flexible Wireless Pressure Sensor for Continuous Pressure Monitoring in Medical Applications. <b>2020</b> , 20,	5
384	Flexible Electronics for Monitoring Electrophysiology and Metabolite Signals. <b>2020</b> , 8, 547591	1
383	Comparison of Wearable and Clinical Devices for Acquisition of Peripheral Nervous System Signals. <b>2020</b> , 20,	7
382	Monolithic Heterogeneous Integration of 3D Radio Frequency L <b>I</b> Elements by Self-Rolled-Up Membrane Nanotechnology. <b>2020</b> , 30, 2004034	6
381	Microengineering Pressure Sensor Active Layers for Improved Performance. <b>2020</b> , 30, 2003491	122
380	Bioresorbable Wireless Sensors as Temporary Implants for In Vivo Measurements of Pressure. <b>2020</b> , 30, 2003754	21
379	A Biodegradable Implant Antenna Detecting Post-Surgical Infection. 2020,	1
378	Unconventional Device and Material Approaches for Monolithic Biointegration of Implantable Sensors and Wearable Electronics. <b>2020</b> , 5, 2000407	23
377	A Review of Bioresorbable Implantable Medical Devices: Materials, Fabrication, and Implementation. <b>2020</b> , 9, e2000790	30
376	Perspectives on smart stents with sensors: From conventional permanent to novel bioabsorbable smart stent technologies. <b>2020</b> , 3, e10116	5
375	Blood Pressure Sensors: Materials, Fabrication Methods, Performance Evaluations and Future Perspectives. <b>2020</b> , 20,	13
374	Sensors Made of Natural Renewable Materials: Efficiency, Recyclability or Biodegradability-The Green Electronics. <b>2020</b> , 20,	8

373	Flexible Dual-Wave Mode AlN-Based Surface Acoustic Wave Device on Polymeric Substrate. <b>2020</b> , 41, 1692-1695	7
372	An Implantable Ionic Wireless Power Transfer System Facilitating Electrosynthesis. <b>2020</b> , 14, 11743-11752	4
371	Nanocomposite hydrogel-based strain and pressure sensors: a review. <b>2020</b> , 8, 18605-18623	83
370	Advanced Materials and Systems for Biodegradable, Transient Electronics. <b>2020</b> , 32, e2002211	38
369	In-Vivo Microsystems: A Review. <b>2020</b> , 20,	5
368	Deep-Learning-Based Deconvolution of Mechanical Stimuli with TiCT MXene Electromagnetic Shield Architecture Dual-Mode Wireless Signal Variation Mechanism. <b>2020</b> , 14, 11962-11972	10
367	Bioresorbable and Biodegradable Electronics and Photonics. 2020,	
366	Recent Progress in Wearable Biosensors: From Healthcare Monitoring to Sports Analytics. <b>2020</b> , 10,	28
365	Recent Advances in Cell Adhesive Force Microscopy. <b>2020</b> , 20,	2
364	Designing Tunable Capacitive Pressure Sensors Based on Material Properties and Microstructure Geometry. <b>2020</b> , 12, 58301-58316	20
363	High precision epidermal radio frequency antenna via nanofiber network for wireless stretchable multifunction electronics. <b>2020</b> , 11, 5629	24
362	Protein Gel Phase Transition: Toward Superiorly Transparent and Hysteresis-Free Wearable Electronics. <b>2020</b> , 30, 1910080	19
361	Progress and challenges in fabrication of wearable sensors for health monitoring. 2020, 312, 112105	70
<b>3</b> 60	Using Bionics to Restore Sensation to Reconstructed Breasts. <b>2020</b> , 14, 24	2
359	From Molecular Reconstruction of Mesoscopic Functional Conductive Silk Fibrous Materials to Remote Respiration Monitoring. <b>2020</b> , 16, e2000203	26
358	Graphene decorated carbonized cellulose fabric for physiological signal monitoring and energy harvesting. <b>2020</b> , 8, 12665-12673	34
357	Skin-inspired electronics: emerging semiconductor devices and systems. <b>2020</b> , 41, 041601	33
356	Cardiac energy harvesting and sensing based on piezoelectric and triboelectric designs. <b>2020</b> , 76, 105076	36

## (2020-2020)

355	Materials and Orthopedic Applications for Bioresorbable Inductively Coupled Resonance Sensors. <b>2020</b> , 12, 31148-31161	9
354	Nanogenerators to Power Implantable Medical Systems. <b>2020</b> , 4, 1398-1407	26
353	High-performance capacitive strain sensors with highly stretchable vertical graphene electrodes. <b>2020</b> , 8, 5541-5546	23
352	Soft, Implantable Bioelectronic Interfaces for Translational Research. <b>2020</b> , 32, e1906512	38
351	Wireless sensor enables longitudinal monitoring of regenerative niche mechanics during rehabilitation that enhance bone repair. <b>2020</b> , 135, 115311	13
350	Hierarchically structured PVDF/ZnO core-shell nanofibers for self-powered physiological monitoring electronics. <b>2020</b> , 72, 104706	101
349	Bioresorbable, Wireless, Passive Sensors as Temporary Implants for Monitoring Regional Body Temperature. <b>2020</b> , 9, e2000942	35
348	Mechanics designs-performance relationships in epidermal triboelectric nanogenerators. <b>2020</b> , 76, 105017	18
347	Fibrous inductance strain sensors for passive inductance textile sensing. <b>2020</b> , 15, 100243	11
346	Biodegradable Materials and Green Processing for Green Electronics. <b>2020</b> , 32, e2001591	71
345	Hybrid Graphene/Carbon Nanofiber Wax Emulsion for Paper-Based Electronics and Thermal Management. <b>2020</b> , 6, 2000232	9
344	Bioelectronic Skin Based on Nociceptive Ion Channel for Human-Like Perception of Cold Pains. <b>2020</b> , 16, e2001469	2
343	Highly Tough, Stretchable, Self-Adhesive and Strain-Sensitive DNA-Inspired Hydrogels for Monitoring Human Motion. <b>2020</b> , 26, 11604-11613	10
342	Ultrasoft Liquid Metal Elastomer Foams with Positive and Negative Piezopermittivity for Tactile Sensing. <b>2020</b> , 30, 2002611	83
341	A smartphone-enabled wireless and batteryless implantable blood flow sensor for remote monitoring of prosthetic heart valve function. <b>2020</b> , 15, e0227372	10
340	Smart orthopaedic implants: A targeted approach for continuous postoperative evaluation in the spine. <b>2020</b> , 104, 109690	10
339	Wireless implantable and biodegradable sensors for postsurgery monitoring: current status and future perspectives. <b>2020</b> , 31, 252001	22
338	Biodegradable and stretchable polymeric materials for transient electronic devices. <b>2020</b> , 45, 96-102	27

337	Nanofabrication for all-soft and high-density electronic devices based on liquid metal. 2020, 11, 1002	46
336	Materials, Mechanics Designs, and Bioresorbable Multisensor Platforms for Pressure Monitoring in the Intracranial Space. <b>2020</b> , 30, 1910718	29
335	WSe2 2D p-type semiconductor-based electronic devices for information technology: Design, preparation, and applications. <b>2020</b> , 2, 656-697	49
334	Investigation of cortisol dynamics in human sweat using a graphene-based wireless mHealth system. <b>2020</b> , 2, 921-937	137
333	Degradable Piezoelectric Biomaterials for Wearable and Implantable Bioelectronics. 2020, 24,	34
332	Material strategies for on-demand smart transient electronics. <b>2020</b> , 45, 129-134	9
331	Advanced manufacturing for transient electronics. <b>2020</b> , 45, 113-120	5
330	Bioinspired, Microstructured Silk Fibroin Adhesives for Flexible Skin Sensors. <b>2020</b> , 12, 5601-5609	44
329	From design to applications of stimuli-responsive hydrogel strain sensors. <b>2020</b> , 8, 3171-3191	7 <sup>2</sup>
328	Bioresorbable Materials on the Rise: From Electronic Components and Physical Sensors to In Vivo Monitoring Systems. <b>2020</b> , 7, 1902872	40
327	Conformable surface acoustic wave biosensor for E-coli fabricated on PEN plastic film. 2020, 163, 112164	33
326	Continuous and Scalable Manufacture of Hybridized Nano-Micro Triboelectric Yarns for Energy Harvesting and Signal Sensing. <b>2020</b> , 14, 4716-4726	69
325	Electronic Skins for Robotics and Wearables. <b>2020</b> ,	
324	Anti-liquid-Interfering and Bacterially Antiadhesive Strategy for Highly Stretchable and Ultrasensitive Strain Sensors Based on Cassie-Baxter Wetting State. <b>2020</b> , 30, 2000398	109
323	Clinical Opportunities for Continuous Biosensing and Closed-Loop Therapies. <b>2020</b> , 2, 319-340	25
322	Green Strategies to Printed Sensors for Healthcare Applications. <b>2021</b> , 61, 116-156	12
321	Wearable and Biodegradable Sensors for Human Health Monitoring <b>2021</b> , 4, 122-139	24
320	Mixed oxide nanotubes in nanomedicine: A dead-end or a bridge to the future?. <b>2021</b> , 47, 2917-2948	17

## (2021-2021)

319	Technology evolution from self-powered sensors to AIoT enabled smart homes. <b>2021</b> , 79, 105414	77
318	Wireless wearable wristband for continuous sweat pH monitoring. <b>2021</b> , 327, 128948	11
317	Material innovation and mechanics design for substrates and encapsulation of flexible electronics: a review. <b>2021</b> , 8, 383-400	30
316	Electrical bioadhesive interface for bioelectronics. <b>2021</b> , 20, 229-236	136
315	Electroactive material-based biosensors for detection and drug delivery. <b>2021</b> , 170, 396-424	14
314	Flexible Fringe Effect Capacitive Sensors with Simultaneous High-Performance Contact and Non-Contact Sensing Capabilities. <b>2021</b> , 2, 2000079	18
313	Edible Electronics: The Vision and the Challenge. <b>2021</b> , 6, 2000757	31
312	A Flexible Humidity Sensor Based on Natural Biocompatible Silk Fibroin Films. <b>2021</b> , 6, 2001053	15
311	Smart Stretchable Electronics for Advanced Human Machine Interface. <b>2021</b> , 3, 2000157	12
310	Wearable and Biodegradable Sensors for Clinical and Environmental Applications. <b>2021</b> , 3, 68-100	20
309	Magnetically Controlled Soft Robotics Utilizing Elastomers and Gels in Actuation: A Review. <b>2021</b> , 3, 2000186	25
308	Biodegradable Materials for Sustainable Health Monitoring Devices. <b>2021</b> , 4, 163-194	42
307	Wirelessly powered multi-functional wearable humidity sensor based on RGO-WS2 heterojunctions. <b>2021</b> , 329, 129077	12
306	A New Capacitive Sensor for Histomorphometry Evaluation of Dental Implants. <b>2021</b> , 21, 14515-14521	2
305	Wearable Sensing Devices for Point of Care Diagnostics <b>2021</b> , 4, 47-70	21
304	Stretchable Electronics Based on PDMS Substrates. <b>2021</b> , 33, e2003155	98
303	Soft gold nanowire sponge antenna for battery-free wireless pressure sensors. <b>2021</b> , 13, 3957-3966	4
302	Soft implantable drug delivery device integrated wirelessly with wearable devices to treat fatal seizures. <b>2021</b> , 7,	36

301	Recent progress of skin-integrated electronics for intelligent sensing. <b>2021</b> , 2, 1-20	7
300	Enabling Wearable Pulse Transit Time-Based Blood Pressure Estimation for Medically Underserved Areas and Health Equity: Comprehensive Evaluation Study (Preprint).	
299	A hierarchical porous carbon-nanotube skeleton for sensing films with ultrahigh sensitivity, stretchability, and mechanical compliance. <b>2021</b> , 9, 4317-4325	6
298	A chip-less and battery-less subharmonic tag for wireless sensing with parametrically enhanced sensitivity and dynamic range. <b>2021</b> , 11, 3782	5
297	Bioresorbable Metals for Biomedical Applications: From Mechanical Components to Electronic Devices. <b>2021</b> , 10, e2002236	8
296	Wearable Biosensors: An Alternative and Practical Approach in Healthcare and Disease Monitoring. <b>2021</b> , 26,	43
295	Smart power system of biocompatible and flexible micro-supercapacitor. <b>2021</b> , 118, 073902	1
294	Array Integration and Far-Field Detection of Biocompatible Wireless LC Pressure Sensors <b>2021</b> , 5, e2001055	3
293	From Diagnosis to Treatment: Recent Advances in Patient-Friendly Biosensors and Implantable Devices. <b>2021</b> , 15, 1960-2004	51
292	From Fiber to Fabric: Progress Towards Photovoltaic Energy Textile. <b>2021</b> , 3, 76-106	5
291	Shape Fidelity of 3D-Bioprinted Biodegradable Patches. <b>2021</b> , 12,	1
290	Implanted Flexible Electronics: Set Device Lifetime with Smart Nanomaterials. 2021, 12,	9
289	Metaoptronic Multiplexed Interface for Probing Bioentity Behaviors. 2021, 21, 2681-2689	3
288	Bio-based Materials for Microwave Devices: A Review. <b>2021</b> , 50, 1893-1921	O
287	Wireless and battery-free technologies for neuroengineering. <i>Nature Biomedical Engineering</i> , <b>2021</b> , 19	26
286	Cohabiting Plant-Wearable Sensor In Situ Monitors Water Transport in Plant. <b>2021</b> , 8, 2003642	14
285	Flexible Noncontact Sensing for Human-Machine Interaction. <b>2021</b> , 33, e2100218	70
284	Research review about the progress of transient electronics in sensor and electronic skin. <b>2021</b> , 1827, 012045	

283	Coupling-Independent Sensing Systems with Fully Passive Sensors. <b>2021</b> , 469-521	1
282	Electronic skin: from flexibility to a sense of touch. <b>2021</b> , 591, 685-687	30
281	Noninvasive Flow Monitoring in Simple Flow Phantom Using Resistive Strain Sensors. <b>2021</b> , 21,	1
280	Flow-sensory contact electrification of graphene. <b>2021</b> , 12, 1755	3
279	Chemiresistor sensor matrix prepared by full-printing processes. <b>2021</b> , 6, 015013	О
278	MXenes for memristive and tactile sensory systems. <b>2021</b> , 8, 011316	8
277	All-polymeric transient neural probe for prolonged in-vivo electrophysiological recordings.	
276	Organic thin film transistors-based biosensors. <b>2021</b> , 3, e12094	17
275	Ultra-Wide Range Pressure Sensor Based on a Microstructured Conductive Nanocomposite for Wearable Workout Monitoring. <b>2021</b> , 10, e2001461	10
274	Highly anisotropic and flexible piezoceramic kirigami for preventing joint disorders. 2021, 7,	30
273	Biodegradable Flexible Electronic Device with Controlled Drug Release for Cancer Treatment. <b>2021</b> , 13, 21067-21075	5
272	Development of electrical transduction based wearable tactile sensors for human vital signs monitor: Fundamentals, methodologies and applications. <b>2021</b> , 321, 112582	4
271	Recent Progress in Flexible Tactile Sensors for Human-Interactive Systems: From Sensors to Advanced Applications. <b>2021</b> , 33, e2005902	45
270	Highly stretchable and sensitive strain sensor based on polypyrrole coated bacterial cellulose fibrous network for human motion detection. <b>2021</b> , 211, 108665	14
269	Printable and recyclable carbon electronics using crystalline nanocellulose dielectrics 2021, 4, 261-268	19
268	A Self-Powered Portable Flexible Sensor of Monitoring Speed Skating Techniques. <b>2021</b> , 11,	3
267	Printed carbon electronics get recycled. <b>2021</b> , 4, 241-242	0
266	Flexible and degradable resistive switching memory fabricated with sodium alginate*. <b>2021</b> , 30, 047302	O

265	Stretchable and suturable fibre sensors for wireless monitoring of connective tissue strain. <b>2021</b> , 4, 291-301	30
264	Printable wet-resistive textile strain sensors using bead-blended composite ink for robustly integrative wearable electronics. <b>2021</b> , 210, 108674	11
263	Imperceptible energy harvesting device and biomedical sensor based on ultraflexible ferroelectric transducers and organic diodes. <b>2021</b> , 12, 2399	29
262	Self-Recoverable, Stretchable, and Sensitive Wearable Sensors Based on Ternary Semi-interpenetrating Ionic Hydrogels. <b>2021</b> , 3, 2732-2741	7
261	Energy Harvesting Untethered Soft Electronic Devices. <b>2021</b> , 10, e2002286	6
<b>2</b> 60	The Biocompatibility of Wireless Power Charging System on Human Neural Cells. <b>2021</b> , 11, 3611	3
259	Wireless and battery-free platforms for collection of biosignals. <b>2021</b> , 178, 113007	22
258	A polyurethane integrating self-healing, anti-aging and controlled degradation for durable and eco-friendly E-skin. <b>2021</b> , 410, 128363	20
257	Application of a sub-0.1-mm implantable mote for in vivo real-time wireless temperature sensing. <b>2021</b> , 7,	16
256	Recent Advances in Printing Technologies of Nanomaterials for Implantable Wireless Systems in Health Monitoring and Diagnosis. <b>2021</b> , 10, e2100158	7
255	Integrating Emerging Polymer Chemistries for the Advancement of Recyclable, Biodegradable, and Biocompatible Electronics. <b>2021</b> , 8, e2101233	21
254	Nacre-Inspired, Liquid Metal-Based Ultrasensitive Electronic Skin by Spatially Regulated Cracking Strategy. <b>2021</b> , 31, 2102359	21
253	A Portable and Flexible Self-Powered Multifunctional Sensor for Real-Time Monitoring in Swimming. <b>2021</b> , 11,	7
252	Bioderived and degradable polymers for transient electronics.	7
251	Stretchable Capacitive Pressure Sensing Sleeve Deployable onto Catheter Balloons towards Continuous Intra-Abdominal Pressure Monitoring. <b>2021</b> , 11,	11
250	Recent Progress on Bioresorbable Passive Electronic Devices and Systems. <b>2021</b> , 12,	1
249	High-Density Force and Temperature Sensing Skin Using Micropillar Array with Image Sensor. <b>2021</b> , 3, 2000280	1
248	Recent Progress in Development of Wearable Pressure Sensors Derived from Biological Materials. <b>2021</b> , 10, e2100460	5

247	3D Electrodes for Bioelectronics. <b>2021</b> , 33, e2005805		10
246	A Flexible Integrated Bending Strain and Pressure Sensor System for Motion Monitoring. 2021, 21,		3
245	Wireless Power Transfer and Telemetry for Implantable Bioelectronics. <b>2021</b> , 10, e2100614		10
244	Soft HumanMachine Interface with Triboelectric Patterns and Archimedes Spiral Electrodes for Enhanced Motion Detection. <b>2021</b> , 31, 2103075		6
243	Advanced Flexible Skin-Like Pressure and Strain Sensors for Human Health Monitoring. 2021, 12,		10
242	Biocompatible, High-Performance, Wet-Adhesive, Stretchable All-Hydrogel Supercapacitor Implant Based on PANI@rGO/Mxenes Electrode and Hydrogel Electrolyte. <b>2021</b> , 11, 2101329		28
241	Sensation and Perception of a Bioinspired Flexible Smart Sensor System. <b>2021</b> , 15, 9238-9243		4
240	Ultra-sensitive passive wireless sensor exploiting high-order exceptional point for weakly coupling detection. <b>2021</b> , 23, 063008		5
239	Active-Sensing Epidermal Stretchable Bioelectronic Patch for Noninvasive, Conformal, and Wireless Tendon Monitoring. <b>2021</b> , 2021, 9783432		1
238	Advanced Devices for Tumor Diagnosis and Therapy. <b>2021</b> , 17, e2100003		5
238	Advanced Devices for Tumor Diagnosis and Therapy. <b>2021</b> , 17, e2100003  Bio-inspired flexible electronics for smart E-skin. <b>2021</b> ,		5
237	Bio-inspired flexible electronics for smart E-skin. 2021,		5
<sup>2</sup> 37	Bio-inspired flexible electronics for smart E-skin. 2021,  Enabling the Unconstrained Epidermal Pulse Wave Monitoring via Finger-Touching. 2021, 31, 2102378  A review on emerging biodegradable polymers for environmentally benign transient electronic		5
<sup>2</sup> 37 <sup>2</sup> 36 <sup>2</sup> 35	Bio-inspired flexible electronics for smart E-skin. 2021,  Enabling the Unconstrained Epidermal Pulse Wave Monitoring via Finger-Touching. 2021, 31, 2102378  A review on emerging biodegradable polymers for environmentally benign transient electronic skins. 2021, 56, 16765-16789  A self-powered implantable and bioresorbable electrostimulation device for biofeedback bone		5 11 13
<sup>2</sup> 37 <sup>2</sup> 36 <sup>2</sup> 35 <sup>2</sup> 34	Bio-inspired flexible electronics for smart E-skin. 2021,  Enabling the Unconstrained Epidermal Pulse Wave Monitoring via Finger-Touching. 2021, 31, 2102378  A review on emerging biodegradable polymers for environmentally benign transient electronic skins. 2021, 56, 16765-16789  A self-powered implantable and bioresorbable electrostimulation device for biofeedback bone fracture healing. 2021, 118,		5 11 13 18
237 236 235 234 233	Bio-inspired flexible electronics for smart E-skin. 2021,  Enabling the Unconstrained Epidermal Pulse Wave Monitoring via Finger-Touching. 2021, 31, 2102378  A review on emerging biodegradable polymers for environmentally benign transient electronic skins. 2021, 56, 16765-16789  A self-powered implantable and bioresorbable electrostimulation device for biofeedback bone fracture healing. 2021, 118,  Large-Area Transient Conductive Films Obtained through Photonic Sintering of 2D Materials. 2100439  Solution-Processable Conductive Composite Hydrogels with Multiple Synergetic Networks toward Wearable Pressure/Strain Sensors. 2021, 6, 2938-2951  Continuous monitoring of deep-tissue haemodynamics with stretchable ultrasonic phased arrays.	19	5 11 13 18

229	All-polymeric transient neural probe for prolonged in-vivo electrophysiological recordings. <b>2021</b> , 274, 120889	10
228	Conductive Hydrogels for Flexible Mechanical Sensors. <b>2021</b> , 71-98	
227	Optimization and design of bending-insensitive paper-based LC wireless passive sensors. <b>2021</b> , 63, 2763-2768	3
226	A Soft and Absorbable Temporary Epicardial Pacing Wire. <b>2021</b> , 33, e2101447	6
225	A Wireless Near-Infrared Spectroscopy Device for Flap Monitoring: Proof of Concept in a Porcine Musculocutaneous Flap Model. <b>2021</b> ,	1
224	Self-Shaping Soft Electronics Based on Patterned Hydrogel with Stencil-Printed Liquid Metal. <b>2021</b> , 31, 2105481	17
223	Smart Materials Enabled with Artificial Intelligence for Healthcare Wearables. 2105482	8
222	Recent advances in nanogenerators-based flexible electronics for electromechanical biomonitoring. <b>2021</b> , 186, 113290	10
221	Wearable sensors and devices for real-time cardiovascular disease monitoring. <b>2021</b> , 2, 100541	11
220	Implantable application of polymer-based biosensors.	6
219	Biodegradable Implantable Sensors: Materials Design, Fabrication, and Applications. 2104149	10
218	Enabling Wearable Pulse Transit Time-Based Blood Pressure Estimation for Medically Underserved Areas and Health Equity: Comprehensive Evaluation Study. <b>2021</b> , 9, e27466	1
217	Strain Sensing by Electrical Capacitive Variation: From Stretchable Materials to Electronic Interfaces. <b>2021</b> , 7, 2100190	1
216	Nanomaterials and their applications on bio-inspired wearable electronics. <b>2021</b> , 32,	6
215	Flexible Capacitive Pressure Sensor Based on an Embedded Rib Fabric With a Bionic Sloping Petal Structure. <b>2021</b> , 21, 20119-20128	4
214	Modular Synthesis of Fully Degradable Imine-Based Semiconducting p-Type and n-Type Polymers. <b>2021</b> , 33, 7465-7474	6
213	Simulation of Steady-State Temperature Rise of Electric Heating Field of Wireless Sensor Circuit Fault Current Trigger. <b>2021</b> , 2021, 1-11	
212	Materials design for resilience in the biointegration of electronics. <b>2021</b> , 46, 860	1

211	Flexible strain sensor with ridge-like microstructures for wearable applications.	0
210	Post-surgical wireless monitoring of arterial health progression. <b>2021</b> , 24, 103079	1
209	Composites retard hydrolytic crack growth. <b>2021</b> , 48, 101433	1
208	A Zwitterionic-Aromatic Motif-Based ionic skin for highly biocompatible and Glucose-Responsive sensor. <b>2021</b> , 600, 561-571	7
207	Transient electronics: new opportunities for implantable neurotechnology. <b>2021</b> , 72, 22-28	3
206	Expressions for Resonant Frequency of Wirelessly Accessible Planar Mirrored-Coil Sensor in Biomedicine. <b>2021</b> , 1-1	
205	Wearable and Implantable Intraocular Pressure Biosensors: Recent Progress and Future Prospects. <b>2021</b> , 8, 2002971	7
204	Materials, Devices, and Applications for Wearable and Implantable Electronics. <b>2021</b> , 3, 485-503	10
203	Bioresorbable Multilayer Photonic Cavities as Temporary Implants for Tether-Free Measurements of Regional Tissue Temperatures. <b>2021</b> , 2021, 1-14	2
202	Tunable piezoresistivity of low percolation threshold micro-nickel wires/PDMS conductive composite regulated by magnetic field. <b>2021</b> , 9, 5908-5919	3
201	A multiple laser-induced hybrid electrode for flexible triboelectric nanogenerators. <b>2021</b> , 5, 3737-3743	5
200	Wireless Monitoring of Small Strains in Intelligent Robots via a Joule Heating Effect in Stretchable Graphene <b>P</b> olymer Nanocomposites. <b>2020</b> , 30, 1910809	34
199	Wearable Sensors-Enabled Human Machine Interaction Systems: From Design to Application. <b>2021</b> , 31, 2008936	79
198	Recent progress in aqueous based flexible energy storage devices. <b>2020</b> , 30, 260-286	43
197	Real-time monitoring of mechanical cues in the regenerative niche reveal dynamic strain magnitudes that enhance bone repair.	1
196	Graphene-based ultrasensitive optical microfluidic sensor for the real-time and label-free monitoring of simulated arterial blood flow. <b>2020</b> , 28, 16594-16604	8
195	Biocompatible and Biodegradable Functional Polysaccharides for Flexible Humidity Sensors. <b>2020</b> , 2020, 8716847	29
194	A Flexible Pressure Sensor Based on Bimaterial Conductivity-Conversion Mechanism. <b>2021</b> , 42, 1857-1860	3

193	Research on feature mining algorithm and disease diagnosis of pulse signal based on piezoelectric sensor. <b>2021</b> , 100717	0
192	Wirelessly operated bioelectronic sutures for the monitoring of deep surgical wounds. <i>Nature Biomedical Engineering</i> , <b>2021</b> , 5, 1217-1227	9
191	A Flexible and Stretchable 12-Lead Electrocardiogram System with Individually Deformable Interconnects. 2100904	3
190	Multifunctional and Physically Transient Supercapacitors, Triboelectric Nanogenerators, and Capacitive Sensors. 2106066	9
189	Ultra-Stretchable and Self-Healing Anti-Freezing Strain Sensors Based on Hydrophobic Associated Polyacrylic Acid Hydrogels. <b>2021</b> , 14,	1
188	Skin-Inspired Hair-Epidermis-Dermis Hierarchical Structures for Electronic Skin Sensors with High Sensitivity over a Wide Linear Range. <b>2021</b> , 15, 16218-16227	11
187	Vital signal sensing and manipulation of a microscale organ with a multifunctional soft gripper. <b>2021</b> , 6, eabi6774	8
186	A wearable and sensitive carbon black-porous polydimethylsiloxane based pressure sensor for human physiological signals monitoring. <b>2021</b> , 32, 27656	O
185	Disappearing pressure cuffs. <b>2019</b> , 11,	
184	Flexible Doppler ultrasound device for the monitoring of blood flow velocity. <b>2021</b> , 7, eabi9283	7
183	A theoretical model of flexible capacitive pressure sensor with microstructured electrode for highly sensitive electronic skin.	1
182	Flexible Pressure Sensor with Micro-Structure Arrays Based on PDMS and PEDOT:PSS/PUD&CNTs Composite Film with 3D Printing. <b>2021</b> , 14,	O
181	Self-Assembled Peptide Nanofibers with Voltage-Regulated Inverse Photoconductance. <b>2021</b> , 13, 1057-1064	0
180	Stretchable self-powered epidermal electronics from piezoelectric rubber for tactile sensing. <b>2020</b> , 69, 178701	1
179	Recent advances of flexible sensors for biomedical applications. 2021,	7
178	Mechanically Stable Kirigami Deformable Resonant Circuits for Wireless Vibration and Pressure Sensor Applications. <b>2021</b> , 13, 54162-54169	2
177	Comparison of wearable and clinical devices for acquisition of peripheral nervous system signals.	1
176	Biomimetic integration of tough polymer elastomer with conductive hydrogel for highly stretchable, flexible electronic. <b>2022</b> , 92, 106735	5

175	A soft-electronic sensor network tracks neuromotor development in infants. <b>2021</b> , 118,	1
174	A stretchable and strain-unperturbed pressure sensor for motion interference-free tactile monitoring on skins. <b>2021</b> , 7, eabi4563	21
173	Electrospun fiber-based high-performance flexible multi-level micro-structured pressure sensor: Design, development and modelling. <b>2021</b> , 431, 133700	2
172	A microwell-based impedance sensor on an insertable microneedle for real-time in vivo cytokine detection <b>2021</b> , 7, 96	1
171	Bioinspired Gas-Confined Hollow Microfiber with 2D Conducting Polymer/Graphene Skeleton for Ultrasensitive Liquid Environment Sensor. 2101220	1
170	Natural Polymer in Soft Electronics: Opportunities, Challenges, and Future Prospects. <b>2021</b> , e2105020	10
169	Biologically Safe, Degradable Self-Destruction System for On-Demand, Programmable Transient Electronics. <b>2021</b> ,	5
168	Slippery Liquid-Infused Microphase Separation Surface Enables Highly Robust Anti-fouling, Anti-corrosion, Anti-icing and Anti-scaling Coating on Diverse Substrates. <b>2021</b> , 133945	1
167	Recent progress in biodegradable and bioresorbable materials: From passive implants to active electronics. <b>2021</b> , 25, 101257	4
166	Microdome-Tunable Graphene/Carbon Nanotubes Pressure Sensors Based on Polystyrene Array for Wearable Electronics. <b>2021</b> , 14,	2
165	Application research of pulse signal physiology and pathology feature mining in the field of disease diagnosis <b>2022</b> , 1-14	
164	Electrostatic Interaction-Based High Tissue Adhesive, Stretchable Microelectrode Arrays for the Electrophysiological Interface <b>2022</b> ,	4
163	An All-Nanofiber-Based, Breathable, Ultralight Electronic Skin for Monitoring Physiological Signals. 2101312	1
162	A Mechanically Interlocking Strategy Based on Conductive Microbridges for Stretchable Electronics <b>2022</b> , e2101339	2
161	Electrical Failure Mechanism in Stretchable Thin-Film Conductors 2022,	1
160	Strong Bacterial Cellulose-Based Films with Natural Laminar Alignment for Highly Sensitive Humidity Sensors <b>2022</b> , 14, 3165-3175	5
159	Smart bioelectronics and biomedical devices <b>2022</b> , 5, 1-5	0
158	Graphene Porous Foams for Capacitive Pressure Sensing.	2

157	Novel flexible piezoelectric-conductive Janus nanofibers integrated membrane with enhanced pressure sensing performance. 52180	1
156	Flexible force sensitive frequency reconfigurable antenna base on stretchable conductive fabric. <b>2022</b> , 55, 195301	1
155	A gold nanowire-integrated soft wearable system for dynamic continuous non-invasive cardiac monitoring <b>2022</b> , 205, 114072	2
154	Scotch-Tape Surface Wrinkling Based Thin-Film Material Properties Extraction.	1
153	Hydrogel tapes for fault-tolerant strong wet adhesion. <b>2021</b> , 12, 7156	19
152	Piezoelectric nanogenerators for personalized healthcare 2022,	23
151	Biodegradable and Flexible Capacitive Pressure Sensor for Electronic Skins.	
150	MXene Wearables: Properties, Fabrication Strategies, Sensing Mechanism and Applications.	4
149	A biosensor material with robust mechanical properties, fatigue-resistance, biocompatibility, biodegradability, and anti-freezing capabilities.	2
148	Biodegradable and Flexible Capacitive Pressure Sensor for Electronic Skins.	
147	Impact of Molecular Design on Degradation Lifetimes of Degradable Imine-Based Semiconducting Polymers <b>2022</b> , 144, 3717-3726	5
146	An Electrically Conductive Oleogel Paste for Edible Electronics. 2113417	6
145	Biodegradable Elastomers and Gels for Elastic Electronics <b>2022</b> , e2105146	7
144	Challenges in Materials and Devices of Electronic Skin. <b>2022</b> , 4, 577-599	6
143	Advanced Electronics and Artificial Intelligence: Must-Have Technologies Toward Human Body Digital Twins. 2100263	1
142	Piezoelectric Dynamics of Arterial Pulse for Wearable Continuous Blood Pressure Monitoring <b>2022</b> , e2110291	14
141	Programmable Multiwavelength Radio Frequency Spectrometry of Chemophysical Environments through an Adaptable Network of Flexible and Environmentally Responsive, Passive Wireless Elements. 2200013	2
140	Soft wearable devices for deep-tissue sensing.	10

139	Electronic textiles for energy, sensing, and communication <b>2022</b> , 25, 104174	2
138	High-Performance Carbon Nanotube-Based Transient Complementary Electronics 2022,	2
137	Flexible and Wireless Normal-Tangential Force Sensor Based on Resonant Mechanism for Robotic Gripping Applications. 2101385	1
136	Natural Material Inspired Organic Thin-Film Transistors for Biosensing: Properties and Applications. 918-937	3
135	Skin-inspired electrochemical tactility and luminescence. <b>2022</b> , 415, 140259	2
134	Tough Hydrogel Bioadhesives for Sutureless Wound Sealing, Hemostasis and Biointerfaces. 2111465	9
133	Spatiotemporal Measurement of Arterial Pulse Waves Enabled by Wearable Active-Matrix Pressure Sensor Arrays <b>2021</b> ,	14
132	Resorbable elastomers for implantable medical devices: highlights and applications.	О
131	Self-Healable, Malleable, and Flexible Ionic Polyimine as an Environmental Sensor for Portable Exogenous Pollutant Detection. <b>2022</b> , 4, 136-144	5
130	Defect size and cross-linker properties controlled fracture of biopolymer networks. <b>2022</b> , 101743	
129	Flexible microstructured pressure sensors: design, fabrication and applications 2022,	2
128	Self-Powered Force Sensors for Multidimensional Tactile Sensing 2022,	6
127	Ballpoint-pen like probes for multipoint dynamic pulse diagnosis system. 2022, 1-1	
126	Biocompatible Sensors Are Revolutionizing Healthcare Technologies. <b>2022</b> , 227-249	
125	Early Notice Pointer, an IoT-like Platform for Point-of-Care Feet and Body Balance Screening. <b>2022</b> , 13, 682	0
124	Occupational heat strain in outdoor workers: A comprehensive review and meta-analysis. 1-36	6
123	Progress of flexible strain sensors for physiological signal monitoring. <b>2022</b> , 114298	8
122	Wireless real-time capacitance readout based on perturbed nonlinear parity-time symmetry. <b>2022</b> , 120, 194101	O

121	Fully implantable wireless batteryless vascular electronics with printed soft sensors for multiplex sensing of hemodynamics <b>2022</b> , 8, eabm1175	7
120	Biodegradable and flexible capacitive pressure sensor for electronic skins. <b>2022</b> , 106, 106539	2
119	Intelligent wireless theranostic contact lens for electrical sensing and regulation of intraocular pressure <b>2022</b> , 13, 2556	8
118	Measurement of Pulsating Flow Using a Self-Attachable Flexible Strain Sensor Based on Adhesive PDMS and CNT. <b>2022</b> , 10, 187	O
117	Scalable Three-Dimensional Recording Electrodes for Probing Biological Tissues 2022,	O
116	A Repeater Antenna System Utilizing Genetically Modified Bacteria for Multiscale Communications. <b>2022</b> ,	O
115	Integrating MXene waste materials into value-added products for smart wearable self-powered healthcare monitoring. <b>2022</b> , 100908	1
114	Ultrasound Monitoring of Microcirculation: An original study from the laboratory bench to the clinic.	O
113	Current state and future prospects of sensors for evaluating polymer biodegradability and sensors made from biodegradable polymers: A review. <b>2022</b> , 339989	2
112	Detection Range Enhancement of Stretchable Ultrasensitive Crack-Based Strain Sensor with Ordered Ag Nanowire Micromeshes for Human Epidermis Monitoring. 2200440	
111	Autonomous push buttonEontrolled rapid insulin release from a piezoelectrically activated subcutaneous cell implant. <b>2022</b> , 8,	
110	Wide-range robust wireless power transfer using heterogeneously coupled and flippable neutrals in parity-time symmetry. <b>2022</b> , 8,	O
109	Advances in Biodegradable Electronic Skin: Material Progress and Recent Applications in Sensing, Robotics, and Human Machine Interfaces. 2203193	5
108	Inorganic Flexible Electronics: Materials, Strategies, and Applications. <b>2022</b> , 85-104	
107	Human body IoT systems based on triboelectrification effect: energy harvesting, sensing, interfacing and communication.	8
106	Morphological Engineering of Sensing Materials for Flexible Pressure Sensors and Artificial Intelligence Applications. <b>2022</b> , 14,	7
105	Biodegradable sensors are ready to transform autonomous ecological monitoring.	0
104	Fully implantable batteryless soft platforms with printed nanomaterial-based arterial stiffness sensors for wireless continuous monitoring of restenosis in real time. <b>2022</b> , 46, 101557	2

103	Biodegradable germanium electronics for integrated biosensing of physiological signals. 2022, 6,	1
102	Self-powered and self-sensing devices based on human motion. <b>2022</b> , 6, 1501-1565	3
101	Recent Advances in Flexible Force Sensors and Their Applications: A Review.	0
100	Piezoelectric approaches for wearable continuous blood pressure monitoring: a review. <b>2022</b> , 32, 103003	O
99	Polydimethylsiloxane /carboxylated h ydroxylated multiwalled carbon nanotubes/polyimide composite membrane wearable flexible piezoresistive tactile sensor device with microsphere array.	1
98	Mechanically Active Materials and Devices for Bio-Interfaced Pressure Sensors 🖪 Review. 2205609	2
97	Ramie Fabric Treated with Carboxymethylcellulose and Laser Engraved for Strain and Humidity Sensing. <b>2022</b> , 13, 1309	1
96	Piezo Capsule: Ultrasonic Way of Wireless Pressure Measurement. 2200125	
95	Mechanical Sensors for Cardiovascular Monitoring: From Battery-Powered to Self-Powered. <b>2022</b> , 12, 651	3
94	Soft and Stretchable Liquid MetalElastomer Composite for Wearable Electronics. 2022, 14, 38196-38204	1
94	Soft and Stretchable Liquid MetalElastomer Composite for Wearable Electronics. 2022, 14, 38196-38204  Implants with Sensing Capabilities.	2
93	Implants with Sensing Capabilities.  Ultra-sensitive and flexible electronic skin from nanocellulose/AgNWs hydrogel films with highly	2
93	Implants with Sensing Capabilities.  Ultra-sensitive and flexible electronic skin from nanocellulose/AgNWs hydrogel films with highly transparent, antibacterial and electromagnetic shielding properties. 2022, 228, 109679  Ultrasound-driven in vivo electrical stimulation based on biodegradable piezoelectric	2
93 92 91	Implants with Sensing Capabilities.  Ultra-sensitive and flexible electronic skin from nanocellulose/AgNWs hydrogel films with highly transparent, antibacterial and electromagnetic shielding properties. 2022, 228, 109679  Ultrasound-driven in vivo electrical stimulation based on biodegradable piezoelectric nanogenerators for enhancing and monitoring the nerve tissue repair. 2022, 102, 107707  Bulk Erosion Degradation Mechanism for Poly(1,8-octanediol-co-citrate) Elastomer: An In Vivo and	2 0
93 92 91 90	Implants with Sensing Capabilities.  Ultra-sensitive and flexible electronic skin from nanocellulose/AgNWs hydrogel films with highly transparent, antibacterial and electromagnetic shielding properties. 2022, 228, 109679  Ultrasound-driven in vivo electrical stimulation based on biodegradable piezoelectric nanogenerators for enhancing and monitoring the nerve tissue repair. 2022, 102, 107707  Bulk Erosion Degradation Mechanism for Poly(1,8-octanediol-co-citrate) Elastomer: An In Vivo and In Vitro Investigation.  Structure-regenerated silk fibroin with boosted piezoelectricity for disposable and biodegradable	2 0 3
93 92 91 90 89	Implants with Sensing Capabilities.  Ultra-sensitive and flexible electronic skin from nanocellulose/AgNWs hydrogel films with highly transparent, antibacterial and electromagnetic shielding properties. 2022, 228, 109679  Ultrasound-driven in vivo electrical stimulation based on biodegradable piezoelectric nanogenerators for enhancing and monitoring the nerve tissue repair. 2022, 102, 107707  Bulk Erosion Degradation Mechanism for Poly(1,8-octanediol-co-citrate) Elastomer: An In Vivo and In Vitro Investigation.  Structure-regenerated silk fibroin with boosted piezoelectricity for disposable and biodegradable oral healthcare device. 2022, 103, 107787  Regulated extravascular microenvironment via reversible thermosensitive hydrogel for inhibiting	2 0 3

85	Bioinspired Nanomaterials and Nanostructures from Nanobiology to Nanomedicine. <b>2022</b> , 1-31	О
84	A review of inkjet printing technology for personalized-healthcare wearable devices. <b>2022</b> , 10, 14091-14115	1
83	Integrated temperature and pressure dual-mode sensors based on elastic PDMS foams decorated with thermoelectric PEDOT:PSS and carbon nanotubes for human energy harvesting and electronic-skin. <b>2022</b> , 10, 18256-18266	4
82	Preparation of Coating Artificial Graphite with Sodium Alginate as Negative Electrode Material for Lithium-ion Battery Study and Its Lithium Storage Properties.	O
81	Functionality of Flexible Pressure Sensors in Cardiovascular Health Monitoring: A Review. <b>2022</b> , 7, 2495-2520	2
80	Food-Based Capacitive Sensors Using a Dynamic Permittivity Change with Hydrogels Responsive to Hydrogen Peroxide. 2200830	2
79	Thermally Degradable Inductors with Water-Resistant Metal Leaf/Oleogel Wires and Gelatin/Chitosan Hydrogel Films. <b>2022</b> , 14, 44697-44703	1
78	An Edible and Nutritive Zinc-Ion Micro-supercapacitor in the Stomach with Ultrahigh Energy Density. <b>2022</b> , 16, 15261-15272	2
77	Mo2CL quasi-sphere architecture for the flexible sensor in the movement monitor. <b>2022</b> , 33, 22007-22016	О
76	Biodegradable polymeric materials for flexible and degradable electronics. 3,	2
75	Wearable, wireless, multi-sensor device for monitoring tissue circulation after free-tissue transplantation: a multicentre clinical trial. <b>2022</b> , 12,	O
74	Materials and Biomedical Applications of Implantable Electronic Devices. 2200853	O
73	Low-Temperature Plasma Sintering of Inkjet-Printed Metal Salt Decomposition Inks on Flexible Substrates. 2200834	О
72	Bridging wounds: tissue adhesiveslessential mechanisms, synthesis and characterization, bioinspired adhesives and future perspectives. <b>2022</b> , 10,	1
71	Tunable and Self-Healing Properties of Polysaccharide-Based Hydrogels through Polymer Architecture Modulation. <b>2022</b> , 10, 14053-14063	0
70	High-speed, scanned laser structuring of multi-layered eco/bioresorbable materials for advanced electronic systems. <b>2022</b> , 13,	1
69	Novel Nanotechnology-Driven Prototypes for AI-Enriched Implanted Prosthetics Following Organ Failure. <b>2023</b> , 195-237	О
68	Hydrogel-Based Smart Contact Lens for Highly Sensitive Wireless Intraocular Pressure Monitoring. <b>2022</b> , 7, 3014-3022	2

67	Wearable Capacitive Pressure Sensor for Contact and Non-Contact Sensing and Pulse Waveform Monitoring. <b>2022</b> , 27, 6872	1
66	Micro-/Nano-Structured Biodegradable Pressure Sensors for Biomedical Applications. <b>2022</b> , 12, 952	1
65	Capacitive-piezoresistive hybrid flexible pressure sensor based on conductive micropillar arrays with high sensitivity over a wide dynamic range.	1
64	Hermetic and Bioresorbable Packaging Materials for MEMS Implantable Pressure Sensors: A Review. <b>2022</b> , 1-1	O
63	Multi-vital on-skin optoelectronic biosensor for assessing regional tissue hemodynamics.	О
62	All Digital Light Processing-3D Printing of Flexible Sensor. 2201376	O
61	Biomechanical Sensing Systems for Cardiac Activity Monitoring. <b>2022</b> , 2022, 1-14	О
60	Intelligent wearable devices based on nanomaterials and nanostructures for healthcare.	1
59	Photolithography-Based Microfabrication of Biodegradable Flexible and Stretchable Sensors. 2207081	0
58	The Soft-Strain Effect Enabled High-Performance Flexible Pressure Sensor and Its Application in Monitoring Pulse Waves. <b>2022</b> , 2022,	O
57	Moving toward smart biomedical sensing. <b>2023</b> , 223, 115009	2
56	An Implantable Sensor for Arterial Pressure Monitoring with Minimal Loading: Design and Finite Element Validation. <b>2022</b> ,	O
55	An RFID-Based Sensor for Vascular Flow Monitoring. 2022,	O
54	Nanogenerator-based bidirectional pressure sensor array and its demonstration in underwater invasive species detection.	1
53	Silent Speech Recognition with Strain Sensors and Deep Learning Analysis of Directional Facial Muscle Movement. <b>2022</b> , 14, 54157-54169	1
52	Fabrication, Comparison, Optimization, and Applications of Conductive Graphene Patterns Induced via CO2 and Diode Lasers.	O
51	Three-dimensional printing of soft hydrogel electronics. <b>2022</b> , 5, 893-903	O
50	Porous AgNWs/Poly(vinylidene fluoride) Composite-Based Flexible Piezoresistive Sensor with High Sensitivity and Wide Pressure Ranges. <b>2022</b> , 14, 55119-55129	O

49	Electrochemical biomaterials for self-powered implantable lissue batteries[]A tutorial review.	O
48	Ultrahigh-Resolution Wireless Capacitance Readout Based on a Single Real Mode in a Perturbed PT -Symmetric Electronic Trimer Sandwich. <b>2022</b> , 18,	O
47	Ultrashort 15-nm flexible radio frequency ITO transistors enduring mechanical and temperature stress. <b>2022</b> , 8,	О
46	Epigenetics Changes in Renin Angiotensin System (RAS): Application of Biosensors for Monitoring These Changes. <b>2023</b> , 105-113	O
45	An Overview of Flexible Sensors: Development, Application, and Challenges. 2023, 23, 817	O
44	Bioinspired Nanomaterials and Nanostructures from Nanobiology to Nanomedicine. <b>2023</b> , 19-48	O
43	The Capacitive Sensing of the Pulsatile Liquid FlowIhvestigation on a Physical Vascular Model. <b>2023</b> , 72, 1-8	O
42	Self-Powered Nanofluidic Pressure Sensor with a Linear Transfer Mechanism. 2211613	O
41	Unrevealing the impact of carbon allotropes in flexible polydimethylsiloxane film towards self-powered triboelectric humidity sensor. <b>2023</b> ,	O
40	Robust Neural Interfaces with Photopatternable, Bioadhesive, and Highly Conductive Hydrogels for Stable Chronic Neuromodulation.	O
39	Isotropic conductive paste for bioresorbable electronics. 2023, 18, 100541	O
38	Heart Attack Detector: An IoT based solution integrated with cloud. 2022,	O
37	Tween-80 improves single/coaxial electrospinning of three-layered bioartificial blood vessel. <b>2023</b> , 34,	O
36	Engineering Materials for Neurotechnology. 2201412	O
35	Aerosol Jet Printing of Multi-Dimensional OECT Force Sensor with High Sensitivity and Large Measuring Range. 2201272	1
34	Integrated Sensing Devices for Brain-Computer Interfaces. <b>2023</b> , 241-258	O
33	Material Design in Implantable Biosensors toward Future Personalized Diagnostics and Treatments. <b>2023</b> , 13, 4630	О
32	Biocompatible and Long-Term Monitoring Strategies of Wearable, Ingestible and Implantable Biosensors: Reform the Next Generation Healthcare. <b>2023</b> , 23, 2991	1

31	Wearable, Implantable, Parity-Time Symmetric Bioresonators for Extremely Small Biological Signal Monitoring.	O
30	A co-axial indirect transfer printing process technology applied to the production of flexible serpentine silver micro-nanowires. <b>2023</b> , 117970	O
29	Robust polyethylene sensor complex for multi-dimensional monitoring. 2023, 463, 142407	O
28	Oriented Ti3C2Tx MXene-doped silk fibroin/hyaluronic acid hydrogels for sensitive compression strain monitoring with a wide resilience range and high cycling stability. <b>2023</b> , 665, 131221	O
27	Emerging ultrasonic bioelectronics for personalized healthcare. 2023, 136, 101110	O
26	Biodegradable Implantable Microsystems. 2022,	O
25	Air-Permeable Textile Bioelectronics for Wearable Energy Harvesting and Active Sensing. 2201703	0
24	Enhanced RF response of 3D-printed wireless LC sensors using dielectrics with high permittivity. <b>2023</b> , 8, 015013	O
23	Flexible Transient Bioelectronic System Enables Multifunctional Active-Controlled Drug Delivery. <b>2023</b> , 33, 2215034	O
22	Bioresorbable Pressure Sensor and Its Applications in Abnormal Respiratory Event Identification. <b>2023</b> , 5, 1761-1769	O
21	Flexible, Permeable, and Recyclable Liquid-Metal-Based Transient Circuit Enables Contact/Noncontact Sensing for Wearable Human Machine Interaction. <b>2023</b> , 7,	0
20	Wireless Battery-Free Flexible Sensing System for Continuous Wearable Health Monitoring. 2201662	O
19	Embedment of sensing elements for robust, highly sensitive, and cross-talkfree iontronic skins for robotics applications. <b>2023</b> , 9,	O
18	Highly stretchable ionotronic pressure sensors with broad response range enabled by microstructured ionogel electrodes. <b>2023</b> , 11, 7201-7212	O
17	Silk fibroin based wearable electrochemical sensors with biomimetic enzyme-like activity constructed for durable and on-site health monitoring. <b>2023</b> , 228, 115198	O
16	Fully paper-integrated hydrophobic and air permeable piezoresistive sensors for high-humidity and underwater wearable motion monitoring. <b>2023</b> , 7,	O
15	Soft Electronics for Health Monitoring Assisted by Machine Learning. 2023, 15,	1
14	Zinc hybrid sintering for printed transient sensors and wireless electronics. 2023, 7,	O

13	A Degradable Sensor Based on Insect Protein for Postsurgical Diagnosis of Joint Health.	О
12	Eco-Friendly Bionic Flexible Multifunctional Sensors Based on BiomassMXene Composites. <b>2023</b> , 11, 5834-5844	O
11	Resealable Antithrombotic Artificial Vascular Graft Integrated with a Self-Healing Blood Flow Sensor.	O
10	A battery-less wireless implant for the continuous monitoring of vascular pressure, flow rate and temperature.	O
9	Fabrication, Comparison, Optimization, and Applications of Conductive Graphene Patterns Induced via CO2 and Diode Lasers.	O
8	Nature-Driven Biocompatible Epidermal Electronic Skin for Real-Time Wireless Monitoring of Human Physiological Signals.	O
7	Battery-Free, Wireless, Cuff-Type, Multimodal Physical Sensor for Continuous Temperature and Strain Monitoring of Nerve.	O
6	Structural Design and Optimization of Engine Oil Pressure Sensor. 2023,	O
5	Integrated intelligent tactile system for a humanoid robot. 2023,	O
4	Wireless and Flexible Tactile Sensing Array Based on an Adjustable Resonator with Machine-Learning Perception.	O
3	Flexible and Stretchable Piezoresistive Sensor with Decoupled Pressure Sensing Capability.	O
2	Wireless Human Motion Detection with a Highly Sensitive Wearable Pressure Sensing Technology.	O
1	Recent Advances in 2D Wearable Flexible Sensors.	О