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Piezoelectric nanogenerators based on zinc oxide nanowire arrays

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423	Nanoscale Electrical Probes on a Single Facet of a ZnO Microwire: Device Fabrication and Local Electrical Characteristics.	
422	Cubic Nanogrids for Counterbalance Contradiction among Reorganization Energy, Strain Energy, and Wide Bandgap <b>2022</b> , 4297-4308	O
421	Laminated triboelectric acoustic energy harvester based on electrospun nanofiber towards real-time noise decibel monitoring. <b>2022</b> , 107348	2
420	Piezo/Triboelectric Effect Driven Self-Powered Gas Sensor for Environmental Sensor Networks. 2200113	1
419	Biomorphic Synthesis of Nanosized Zinc Oxide for Water Purification. <b>2022</b> , 401-432	
418	Multi-dimensional, transparent and foldable cellulose-based triboelectric nanogenerator for touching password recognition. <b>2022</b> , 98, 107307	1

417	High-performance triboelectric nanogenerator with synchronization mechanism by charge handling. <b>2022</b> , 263, 115655	2
416	Piezoelectricity induced by gaseous molecules adsorbed on ZnO nanotubes. <b>2022</b> , 281, 115729	O
415	Fully nano/micro-fibrous triboelectric on-skin patch with high breathability and hydrophobicity for physiological status monitoring. <b>2022</b> , 98, 107311	4
414	Oxygen annealing induced enhancement in output characteristics of ZnO based flexible piezoelectric nanogenerators. <b>2022</b> , 913, 165277	2
413	Sustainable desalination device capable of producing freshwater and electricity. <b>2022</b> , 535, 115820	2
412	Turning the morphology and wetting ability of self-assembled hierarchical structures from lignin stearoyl esters. <b>2022</b> , 183, 114969	1
411	Cylindrical bearing inspired oil enhanced rolling friction based nanogenerator. 2022, 99, 107372	О
410	Magnetically Actuated Medical Robots: An in vivo Perspective. <b>2022</b> , 1-10	3
409	Self-Powered Tactile Sensor for Gesture Recognition Using Deep Learning Algorithms.	2
408	Influence of Cerium and Nickel Co-Doping on ZnO Nanostructures for Electrochemical Behavior of H2O2 Sensing Applications. <b>2022</b> , 14, 6353	3
407	Recent trends, challenges, and perspectives in piezoelectric-driven self-chargeable electrochemical supercapacitors.	2
406	Driving-torque self-adjusted triboelectric nanogenerator for effective harvesting of random wind energy. <b>2022</b> , 99, 107389	О
405	Symmetry-breaking triggered by atomic tungsten for largely enhanced piezoelectric response in hexagonal boron nitride. <b>2022</b> , 99, 107375	0
404	Ultrarobust, hierarchically anisotropic structured piezoelectric nanogenerators for self-powered sensing. <b>2022</b> , 99, 107379	2
403	Piezoelectric properties in two-dimensional GeC and its surface functionalization by chlorination, fluorination, and chloro-fluorination. <b>2022</b> , 148, 106797	0
402	Effect of Water and DMSO on Mechanoelectrical Conversion of Schottky DC Generators.	O
401	Flexible, Self-Poled and Ultra-Sensitive Lead-Free Piezocomposite Nanogenerator for Biomechanical Energy Harvesting.	
400	Vapor and heat dual-drive sustainable power for portable electronics in ambient environment.	3

399	Poling-Free Hydroxyapatite/Polylactide Nanogenerator with Improved Piezoelectricity for Energy Harvesting. <b>2022</b> , 13, 889	O
398	An easy and efficient power generator with ultrahigh voltage for lighting, charging and self-powered systems. <b>2022</b> , 107409	1
397	Highly Transparent and Adhesive Poly(vinylidene difluoride) Films for Self-Powered Piezoelectric Touch Sensors.	2
396	Micro/Nanoarrays and Their Applications in Flexible Sensors: A Review. <b>2022</b> , 100224	O
395	Inhalation-Driven Vertical Flutter Triboelectric Nanogenerator with Amplified Output as a Gas-Mask-Integrated Self-Powered Multifunctional System. 2201001	0
394	Piezoelectric Nanogenerators Based on Electrospun PVDF-Coated Mats Composed of Multilayer Polymer-Coated BaTiO3 Nanowires.	0
393	Ultrahigh Sensitivity and Ultrafast Piezotronic and Piezophototronic Avalanche Devices. 2022, 107450	
392	Piezocatalytic Performance Difference of Graphitic Carbon Nitride (g-C3N4) Derived from Different Precursors. <b>2022</b> , 139748	1
391	A review of flexible lead-free piezoelectric energy harvester. <b>2022</b> , 165653	3
390	Effect of defective structure taking on the electronic and optical properties of InP nanowire. <b>2022</b> , 640, 414042	
389	Performance optimization strategies of halide perovskite-based mechanical energy harvesters.	2
388	Innovation in Cardiovascular Bioelectronics. <b>2022</b> , 587-602	
387	Hydraulic-driven Piezoelectric Ozonation Process for Nitrobenzene Degradation: Synergy, energy consumption, impact factors, mechanism, and application potential.	0
386	Mechanical Modulation of 2D Electronic Devices at Atto-Joule Energy via Flexotronic Effect. 2202779	1
385	Probing Polymer Contact Electrification by Gamma-Ray Radiation. 9,	
384	Microstructure Engineering of Al Doped SrTiO 3 /TiO 2 Heterostructure Nanorod Arrays Boosting Piezo-Photocatalytic Performances. 2200390	O
383	A Self-Powered Optogenetic System for Implantable Blood Glucose Control. <b>2022</b> , 2022, 1-13	O
382	Next-Generation Energy Harvesting and Storage Technologies for Robots Across All Scales. 2200045	O

381	Mechanical energy-induced charge separation in intelligent sensing. 2022, 100952	0
380	Self-powered sensing systems with learning capability. <b>2022</b> ,	2
379	Progress of Biomechanical Energy Harvesters for Wearable Electronic Applications.	О
378	Synthesis of encapsulated ZnO nanowires provide low impedance alternatives for microelectrodes. <b>2022</b> , 17, e0270164	
377	Recent Development of Morphology-Controlled Hybrid Nanomaterials for Triboelectric Nanogenerator: A Review.	1
376	Recent progress of electroactive interface in neural engineering.	О
375	Sensitivity Analysis of ZnO NWs Based Soft Capacitive Pressure Sensors using Finite Element Modeling. <b>2022</b> ,	0
374	Piezoelectric micro generator design and characterization for self-supplying industrial wireless sensor node. <b>2022</b> , 1, 100002	О
373	Electrode surface roughness greatly enhances the sensitivity of electrochemical non-enzymatic glucose sensors. <b>2022</b> , 919, 116541	0
372	Fundamental insights into the electrical signals of a piezoelectric sensor in a sliding condition. <b>2022</b> , 100, 107487	О
371	Scalable, efficient piezoelectric wood nanogenerators enabled by wood/ZnO nanocomposites. <b>2022</b> , 160, 107057	1
370	3D micro-nanostructure based waterproof triboelectric nanogenerator as an outdoor adventure power source. <b>2022</b> , 100, 107506	3
369	Flexible piezoelectric nanogenerator based on the Er3´+ doped lead-free (Na0.5Bi0.5)TiO3-BaTiO3 piezoelectric nanofibers with strong upconversion luminescence. <b>2022</b> , 918, 165766	О
368	Size-dependent and nonlinear magneto-mechanical coupling characteristics analysis for extensional vibration of composite multiferroic piezoelectric semiconductor nanoharvester with surface effect. <b>2022</b> , 96, 104708	0
367	Designing piezo- and pyroelectric energy harvesters. <b>2022</b> , 267-293	
366	Ultra-thin flexible paper of BNNTINF/ZnO ternary nanostructure for enhanced solid-state supercapacitor and piezoelectric response.	O
365	Flexible, Self-Poled and Ultra-Sensitive Lead-Free Piezocomposite Nanogenerator for Biomechanical Energy Harvesting.	
364	Characterization methods used for the identification of ferroelectric beta phase of fluoropolymers. <b>2022</b> , 43-64	

363	A High-Performance Flexible Piezoresistive Sensor Based on a Nanocellulose/Carbon-nanotube/Polyvinyl-alcohol Composite with a Wrinkled Microstructure. <b>2022</b> , 1-1	
362	Polysaccharide-based nanocomposites for energy-harvesting nanogenerators. <b>2022</b> , 159-180	
361	Synthesis of Crossed Twin Disks of Zno and its Growth Mechanism.	
360	Efficient Co2 Reduction to Reveal the Piezocatalytic Mechanism: From Displacement Current to Active Sites.	
359	Nanowires and Nanotubes. 1-50	1
358	Nanoengineering of Metallic Glasses. 2200659	1
357	Controllable growth of single-crystalline zinc oxide nanosheets under ambient condition toward ammonia sensing with ultrahigh selectivity and sensitivity.	2
356	Modeling and analysis of the static bending of piezoelectric nanowires with the consideration of surface effects. <b>2022</b> , 44,	O
355	Magnetic properties in randomly diluted magnetic systems: Co-doped ZnO polycrystalline ceramics. <b>2022</b> , 166264	
354	Local Dipole Enhancement of Space-Charge Piezophototronic Catalysts of Core-Shell Polytetrafluoroethylene@TiO2 Nanospheres. <b>2022</b> , 107619	1
353	Piezoelectric Nanogenerator Driven by Light-Powered Molecular Motors.	
352	Durability Improvement of Breeze-Driven Triboelectric-Electromagnetic Hybrid Nanogenerator by a Travel-Controlled Approach. 2205710	3
351	Two-Dimensional Nanomaterials for Moisture-Electric Generators: A Review.	2
350	High sensitivity and broad linearity range pressure sensor based on hierarchical in-situ filling porous structure. <b>2022</b> , 6,	3
349	Plant-Actuated MicroNanorobotics Platforms: Structural Designs, Functional Prospects, and Biomedical Applications. 2201417	1
348	Carrier-envelope-phase measurement of sub-cycle UV pulses using angular photofragment distributions. <b>2022</b> , 5,	O
347	Flexible, stable and durable polydopamine@lead zirconate titanate/polyimide composite membranes for piezoelectric pressure sensors and limb motion monitoring. <b>2022</b> , 8, 100292	
346	Deep-neural-network solution of piezo-phototronic transistor based on GaN/AlN quantum wells. <b>2022</b> , 101, 107586	1

345	MXene-based materials for advanced nanogenerators. <b>2022</b> , 101, 107556	3
344	A contextual framework development toward triboelectric nanogenerator commercialization. <b>2022</b> , 101, 107572	1
343	Engineering squandered plant protein into eco-friendly triboelectric films for highly efficient energy harvesting. <b>2022</b> , 101, 107589	1
342	On the correlation of the effect of defects on the microstructural, optical and magnetic properties of doped ZnO. <b>2022</b> , 144, 115370	o
341	Piezoelectric Activity Assessment of Size-Dependent Naturally Acquired Mud Volcano Clay Nanoparticles Assisted Highly Pressure Sensitive Nanogenerator for Green Mechanical Energy harvesting and Body Motion sensing <b>2022</b> , 107628	0
340	Superhigh charge density and direct-current output in triboelectric nanogenerators via peak shifting modified charge pumping. <b>2022</b> , 107637	O
339	Controllable Inverse Photoconductance in Semiconducting Nanowire Films. 2204698	
338	Recent Progress in Flexible Pressure Sensor Arrays. <b>2022</b> , 12, 2495	1
337	ZnO Nanowire-Based Piezoelectric Nanogenerator Device Performance Tests. <b>2022</b> , 12, 1023	2
336	Switchless Oscillating Charge Pump-Based Triboelectric Nanogenerator and an Additional Electromagnetic Generator for Harvesting Vertical Vibration Energy. <b>2022</b> , 14, 34081-34092	o
335	In situ synthesis of flower-structured ZnO@YFC for the efficient piezocatalytic degradation of tetracycline wastewater: Degradation mechanism and toxicity evolution. <b>2022</b> , 154330	0
334	Enhanced Piezoelectricity in Lead-free Halide Perovskite Nanocomposite for Self-Powered Wireless Electronics. <b>2022</b> , 107631	
333	Machine learning ensures rapid and precise selection of gold sea-urchin-like nanoparticles for desired light-to-plasmon resonance.	О
332	Mechanical Sensors. <b>2022</b> , 163-191	
331	Triboelectric Nanogenerators for Harvesting Diverse Water Kinetic Energy. 2022, 13, 1219	O
330	Smart Nanotextiles for Energy Generation. <b>2022</b> , 265-309	
329	Multi-Effects Coupled Nanogenerators. <b>2022</b> , 2, 243-244	
328	Smart Nanotextiles Applications: A General Overview. <b>2022</b> , 1-85	

327	PVDF-based and its Copolymer-Based Piezoelectric Composites: Preparation Methods and Applications.	1
326	Cold crystallization and morphology control of ZnO nanostructures for chemical sensors.	
325	Biaxial buckling analysis of an innovative active sandwich plate. 1-14	О
324	Smart Textiles for Healthcare and Sustainability.	7
323	A comprehensive review of organic-inorganic composites based piezoelectric nanogenerators through material structure design. <b>2022</b> , 55, 423003	1
322	Hybrid TriboelectricElectromagnetic Nanogenerator Based on a Tower Spring for Harvesting Omnidirectional Vibration Energy. <b>2022</b> , 5, 11577-11585	1
321	Designer Peptide-PVDF Composite Films for High-Performance Energy Harvesting. 2200493	Ο
320	Emerging Iontronic Sensing: Materials, Mechanisms, and Applications. <b>2022</b> , 2022, 1-35	O
319	Roadmap on bio-derived materials for wearable triboelectric devices. <b>2022</b> , 100219	O
318	Pertinence of Textile-Based Energy Harvesting System for Biomedical Applications. <b>2022</b> , 2022, 1-13	O
317	Photomechaelectric nanogenerator. <b>2022</b> ,	О
316	A review of ceramic, polymer and composite piezoelectric materials. <b>2022</b> , 55, 423002	4
315	Variety of ZnO nanostructured materials prepared by PECVD. <b>2022</b> , 54,	Ο
314	Plasmonic enhanced piezoelectric photoresponse with flexible PVDF@Ag-ZnO/Au composite nanofiber membranes. <b>2022</b> , 30, 32509	
313	Emerging Strategies Based on Sensors for Chronic Wound Monitoring and Management. 2022, 10, 311	
312	Femtosecond Laser-Induced Supermetalphobicity for Design and Fabrication of Flexible Tactile Electronic Skin Sensor. <b>2022</b> , 14, 38328-38338	3
311	A high-performance and biodegradable tribopositive poly-Etaprolactone/ethyl cellulose material. <b>2022</b> , 3, 101012	1
310	ZnO Nano-swirlings for Azo Dye AR183 photocatalytic degradation and antimycotic activity. <b>2022</b> , 12,	1

309	Review on the transformation of biomechanical energy to green energy using triboelectric and piezoelectric based smart materials. <b>2022</b> , 371, 133702	1
308	Incorporation of ZnO encapsulated MoS2 to fabricate flexible piezoelectric nanogenerator and sensor. <b>2022</b> , 102, 107635	О
307	Biocompatible CaTiO3-PVDF composite-based piezoelectric nanogenerator for exercise evaluation and energy harvesting. <b>2022</b> , 102, 107682	4
306	Synthesis of color tunable piezoelectric nanogenerators using CsPbX3 perovskite nanocrystals embedded in poly(D,L-lactide) membranes. <b>2022</b> , 102, 107674	O
305	Harvesting of residuary thermal energy from Mg modified BNT-BKT pyroelectric solid solution using Olsen cycle. <b>2022</b> , 33, 104214	
304	Wearable and flexible electrodes in nanogenerators for energy harvesting, tactile sensors, and electronic textiles: novel materials, recent advances, and future perspectives. <b>2022</b> , 100233	2
303	UV-Enhanced Electrical Performances of ZnO:Ga Nanostructure Nanogenerators by Using Ultrasonic Waves. <b>2022</b> , 69, 5800-5807	2
302	In-situ fabricate highly ordered 3D Cervantite@TiO2 nanoarrays integrated electrode as additive-free anode for lithium/sodium-ion batteries. <b>2022</b> , 548, 232054	O
301	Janus B2XY (X, Y´=´S, Se, Te) monolayers as piezoelectric Materials: A First-Principle study. <b>2022</b> , 806, 140007	О
300	Copper particles-PTFE tube based triboelectric nanogenerator for wave energy harvesting. <b>2022</b> , 107749	О
299	Electrospun flexible PVDF/GO piezoelectric pressure sensor for human joint monitoring. <b>2022</b> , 129, 109358	0
298	Applications of nanogenerator-based wearable devices in orthopedics. <b>2022</b> , 103, 107762	2
297	A large inverse photoconductance based on an asymmetric Van der Waals Bi-heterostructure. <b>2022</b> , 103, 107770	0
296	Enhanced energy harvesting performances of flexible piezoelectric nanocomposite based on CNTs@PZT nanofibers network. <b>2022</b> , 927, 166832	O
295	Transparent and flexible touch on/off switch based on BaTiO3/silicone polymer triboelectric nanogenerator. <b>2022</b> , 103, 107796	1
294	Dynamic analysis of a piezoelectric semiconductor nanoplate with surface effect. <b>2022</b> , 33, 104406	1
293	Electrospun nanofiber based TENGs for wearable electronics and self-powered sensing. <b>2023</b> , 452, 139060	3
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291	Efficient CO2 reduction to reveal the piezocatalytic mechanism: From displacement current to active sites. <b>2023</b> , 320, 122007	2
290	Nanohybrid Materials. <b>2022</b> , 23-46	O
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288	Morphological evolution driven semiconducting nanostructures for emerging solar, biological and nanogenerator applications.	O
287	MEMS Platforms for in-situ Testing of Mechanical Properties of Nanostructures. 2022,	O
286	High piezoresponse in low-dimensional inorganic halide perovskite for mechanical energy harvesting. <b>2022</b> , 6, 4484-4497	O
285	Microfabrication of peptide self-assemblies: inspired by nature towards applications. <b>2022</b> , 51, 6936-6947	1
284	The benefits of combining 1D and 3D nanofilers in piezocomposite nanogenerator for biomechanical energy harvesting.	O
283	Multiferroic BiFeO3-based hydrophobic polymer composites for polarization rationalization-induced piezo-tribo hybrid energy harvesting and versatile self-powered mechanosensing.	2
282	Smart biomaterials and their potential applications in tissue engineering. <b>2022</b> , 10, 6859-6895	О
281	Piezoelectric energy harvesting of a bismuth halide perovskite stabilised by chiral ammonium cations. <b>2022</b> , 24, 6172-6177	1
280	A high performance piezoelectric <b>E</b> riboelectric hybrid energy harvester by synergistic design. <b>2022</b> , 1, 613-622	1
279	Morphology Control of Transition Metal Oxides by Liquid-Phase Process and Their Material Development. <b>2022</b> ,	4
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277	Modelling and Simulation of a Vertically Integrated Zinc Oxide Piezoelectric Nanogenerator. 2022,	Ο
276	Direct-Current Triboelectric Nanogenerators Based on Semiconductor Structure. <b>2022</b> , 4, 4212-4230	Ο
275	Review on Innovative Piezoelectric Materials for Mechanical Energy Harvesting. 2022, 15, 6227	3
274	Aluminum impregnated zinc oxide engineered poly(vinylidene fluoride hexafluoropropylene)-based flexible nanocomposite for efficient harvesting of mechanical energy.	O

273	Nucleation of electro-active pand phases in P(V DF 中P) for manufacturing energy harvesting device and self powered weight measuring device.	0
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271	Core-Shell ZnO@Microporous Organic Polymer Nanospheres as Enhanced Piezo-Triboelectric Energy Harvesting Materials.	0
270	Recent Development of Moisture-Enabled-Electric Nanogenerators. 2204603	О
269	Bioinspired Spinosum Capacitive Pressure Sensor Based on CNT/PDMS Nanocomposites for Broad Range and High Sensitivity. <b>2022</b> , 12, 3265	3
268	Electrospun P3HT/PVDF-HFP semiconductive nanofibers for triboelectric nanogenerators. <b>2022</b> , 12,	O
267	Advances in Atomic Force Microscopy for the Electromechanical Characterization of Piezoelectric and Ferroelectric Nanomaterials. <b>2022</b> , 60, 629-643	0
266	Research on Wave Energy Harvesting Technology of Annular Triboelectric Nanogenerator Based on Multi-Electrode Structure. <b>2022</b> , 13, 1619	1
265	Flexible and Transparent Triboelectric Nanogenerators Based on Polyoxometalate-Modified Polydimethylsiloxane Composite Films for Harvesting Biomechanical Energy.	Ο
264	Dielectric behavior of EVA/EOC/xGnP ternary microcellular nanocomposites.	O
263	Classification and utilization of waste electronic components based on triboelectric nanogenerator. <b>2022</b> , 33, 495401	1
262	Core-Shell ZnO@Microporous Organic Polymer Nanospheres as Enhanced Piezo-Triboelectric Energy Harvesting Materials.	О
261	Electromechanical Natural Frequency Analysis of an Eco-Friendly Active Sandwich Plate. 2022, 11, 261	0
260	Interfacial Grown Zinc Oxide Origami Structure for Broadband Visible Light Driven Photocatalysts. 2200936	O
259	Recent Advances in the Development of Flexible Sensors: Mechanisms, Materials, Performance Optimization, and Applications.	1
258	Topological Nanofibers Enhanced Piezoelectric Membranes for Soft Bioelectronics. 2207393	6
257	High-Performance Triboelectric Nanogenerators Based on Commercial Textiles: Electrospun Nylon 66 Nanofibers on Silk and PVDF on Polyester. <b>2022</b> , 14, 44591-44603	1
256	Modulating ZnO Growth Structures for Maximum Power Output of Hybrid Piezo/Triboelectric Nanogenerator. 2206750	1

255	Recent Advances in Self-Supported Semiconductor Heterojunction Nanoarrays as Efficient Photoanodes for Photoelectrochemical Water Splitting. 2204553	О
254	Sandwich type piezoelectric nanogenerators based on one- and two- dimensional ZnO nanostructures with improved output performance.	O
253	Bionic Interlocking-Structured Polyvinylidene Fluoride/Zinc Oxide-Grafting Barium Titanate for Energy Harvesting and Tire Pressure Monitoring. <b>2022</b> , 61, 14242-14250	0
252	High-Performance Flexible Piezoelectric Nanogenerator Based on Electrospun PVDF-BaTiO3 Nanofibers for Self-Powered Vibration Sensing Applications. <b>2022</b> , 14, 44239-44250	1
251	Piezoelectric Response and Substrate Effect of ZnO Nanowires for Mechanical Energy Harvesting in Internet-of-Things Applications. <b>2022</b> , 15, 6767	0
250	Low-cost Energy Harvesting using ZnO Nanorods on Paper Substrate. <b>2022</b> , 11, 105001	O
249	Lead-Free Transparent Flexible Piezoelectric Nanogenerator for Self-Powered Wearable Electronic Sensors and Energy Harvesting through Rainwater.	0
248	Recent Progress of Triboelectric Nanogenerators as Self-powered Sensors in Transportation Engineering. <b>2022</b> , 112010	O
247	Energy collection generator based on electrostatic conversion mechanism. <b>2022</b> , 7, 100505	0
246	Energy autonomous paper modules and functional circuits.	2
245	Magnetic-field-controlled counterion migration within polyionic liquid micropores enables nano-energy harvest.	0
244	Self-powered Sensors based on Piezoelectric Nanogenerators. <b>2022</b> , 31, 293-300	O
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242	A molecular modeling on the potential application of beryllium oxide nanotube for delivery of hydroxyurea anticancer drug. <b>2022</b> , 28,	O
241	All-Ceramic Flexible Piezoelectric Energy Harvester. 2209297	0
240	Controllably grown single-crystal films as flexoelectric nanogenerators for continuous direct current output. <b>2022</b> , 6,	O
239	Skin-integrated, stretchable triboelectric nanogenerator for energy harvesting and mechanical sensing. <b>2022</b> , 2, 100012	0
238	Combined Triboelectric and Piezoelectric Effect in ZnO/PVDF Hybrid-Based Fiber-Structured Nanogenerator with PDMS:Carbon Black Electrodes. <b>2022</b> , 14, 4414	O

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236	Theory of asymmetric and piezotronically modified double Schottky barriers. 2022, 132, 145702	O
235	Elucidation of Strain-Dependent, Zinc Oxide Nanorod Response for Nanorod-Guided Fluorescence Intensity. <b>2022</b> , 12, 3558	О
234	Artificial intelligence-enhanced skin-like sensors based on flexible nanogenerators. 20220026	1
233	Recent Advances in Energy Harvesting from the Human Body for Biomedical Applications. <b>2022</b> , 15, 7959	2
232	Piezoelectric Nanogenerator Based on Electrospinning PVDF/Cellulose Acetate Composite Membranes for Energy Harvesting. <b>2022</b> , 15, 7026	2
231	Hydrogen Plasma on Graphene Oxide to Produce Gradients of Oxygen-Containing Functional Groups for Self-Powered Devices.	0
230	Preparation of Nano-ZnO Powders from Zinc Slag Oxidation Dust Using a Deep Eutectic Solvent.	1
229	Ultralight, Elastic, Hybrid Aerogel for Flexible/Wearable Piezoresistive Sensor and SolidBolid/GasBolid Coupled Triboelectric Nanogenerator. 2204519	1
228	Elastic Fibers/Fabrics for Wearables and Bioelectronics. 2203808	2
227	Theory and applications of high-voltage triboelectric nanogenerators. 2022, 101108	1
226	A Review on Wearable Electrospun Polymeric Piezoelectric Sensors and Energy Harvesters. 2200442	2
225	Metal oxide nanocomposite based flexible nanogenerator: Synergic effect of light and pressure	O
224	Mixed Dimensional ZnO/WSe2 Piezo-gated Transistor with Active Millinewton Force Sensing. <b>2022</b> , 14, 49026-49034	O
223	Roadmap on nanogenerators and piezotronics. <b>2022</b> , 10, 109201	0
222	2D tribotronic transistors.	O
221	Piezoelectric properties in hydrofluorination surface-engineered two-dimensional ScN. <b>2022</b> , 171, 207424	О
220	Continuously fabricated nano/micro aligned fiber based waterproof and breathable fabric triboelectric nanogenerators for self-powered sensing systems. <b>2022</b> , 104, 107885	Ο

219	Strain related new sciences and devices in low-dimensional binary oxides. 2022, 104, 107917	1
218	Crystallization pathways and interfacial drivers for the formation of hierarchical architectures. <b>2022</b> , 600, 126914	O
217	Bandgap characteristics of a piezoelectric phononic crystal Timoshenko nanobeam based on the modified couple stress and surface energy theories. <b>2022</b> , 33, 104782	O
216	Highly efficient harvesting of vibration energy for complex wastewater purification using Bi5Ti3FeO15 with controlled oxygen vacancies. <b>2023</b> , 453, 139919	1
215	Expedient secondary functions of flexible piezoelectrics for biomedical energy harvesting. <b>2023</b> , 22, 291-311	1
214	Bridging Nano-and Body Area Networks: A Full Architecture for Cardiovascular Health Applications. <b>2022</b> , 1-1	O
213	Nanomechanical properties of PVDFIZnO polymer nanocomposite. 2023, 287, 116126	0
212	Insight of the role of F-impurity on the structural, electro-optical properties of ZnO: DFT and experiment. <b>2023</b> , 154, 107223	O
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210	Patterned Ga2O3 nanowires synthesized by CVD method for High-performance self-powered ultraviolet photodetector. <b>2023</b> , 934, 168070	O
209	Preparation of nano-ZnO and its photocatalytic degradation of dyeing wastewater. 2019, 36, 367-374	0
208	Breathing-Driven Self-Powered Pyroelectric ZnO Integrated Face Mask for Bioprotection. 2200712	O
207	Natural Piezoelectric Biomaterials: A Biocompatible and Sustainable Building Block for Biomedical Devices.	1
206	A review of piezoelectric materials for nanogenerator applications.	O
205	Bio-inspired water-driven electricity generators: From fundamental mechanisms to practical applications. <b>2022</b> ,	4
204	Challenges and Opportunities of Chemiresistors Based on Microelectromechanical Systems for Chemical Olfaction.	1
203	A Space Crawling Robotic Bio-Paw (SCRBP) Enabled by Triboelectric Sensors for Surface Identification. <b>2022</b> , 108013	1
202	Lessons from Nature for Carbon-Based Nanoarchitected Metamaterials. 2200039	1

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35	Preparation and characterisation of pure and Ni doped ZnO nanorods. 1-8	О
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11	Hybrid energy harvesting systems for self-powered sustainable water purification by harnessing ambient energy. <b>2023</b> , 17,	0
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6	Solid Platinum Nanoprobes for Highly Reliable Conductive Atomic Force Microscopy.	O
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