

# Chris R Bowen

## List of Publications by Year in descending order

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470  
papers

19,003  
citations

14614

66  
h-index

19690

117  
g-index

487  
all docs

487  
docs citations

487  
times ranked

17877  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of slurry-jet erosion test for elastomeric materials. <i>Wear</i> , 2022, 488-489, 204125.	1.5	2
2	Evaluation of the pore morphologies for piezoelectric energy harvesting application. <i>Ceramics International</i> , 2022, 48, 5017-5025.	2.3	14
3	Piezo-photoelectronic coupling effect of BaTiO <sub>3</sub> @TiO <sub>2</sub> nanowires for highly concentrated dye degradation. <i>Nano Energy</i> , 2022, 92, 106702.	8.2	100
4	Piezoelectric materials and systems for tissue engineering and implantable energy harvesting devices for biomedical applications. <i>International Materials Reviews</i> , 2022, 67, 683-733.	9.4	21
5	Soft Actuators and Robotic Devices for Rehabilitation and Assistance. <i>Advanced Intelligent Systems</i> , 2022, 4, 2100140.	3.3	44
6	Global optimisation approach for designing high-efficiency piezoelectric beam-based energy harvesting devices. <i>Nano Energy</i> , 2022, 93, 106684.	8.2	19
7	Interface charge density modulation of a lamellar-like spatially separated Ni <sub>9</sub> S <sub>8</sub> nanosheet/Nb <sub>2</sub> O <sub>5</sub> nanobelt heterostructure catalyst coupled with nitrogen and metal (M = Co, Fe, or Cu) atoms to accelerate acidic and alkaline hydrogen evolution reactions. <i>Chemical Engineering Journal</i> , 2022, 431, 134073.	6.6	36
8	Recent Advances in Organic and Organic-Inorganic Hybrid Materials for Piezoelectric Mechanical Energy Harvesting. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	124
9	Orientation effects and figures of merit in advanced 2 <sup>nd</sup> -type composites based on [011]-poled domain-engineered single crystals. <i>CrystEngComm</i> , 2022, 24, 1177-1188.	1.3	5
10	Hydraulic Pressure Ripple Energy Harvesting: Structures, Materials, and Applications. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	3
11	Ultrasonic Transducers Made From Freeze-Cast Porous Piezoceramics. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2022, 69, 1100-1111.	1.7	7
12	Hydraulically Amplified Self-Healing Electrostatic Actuators Based on a Novel Bilayer Polymer Shell for Enhanced Strain, Load, and Rotary Motion. <i>Advanced Intelligent Systems</i> , 2022, 4, .	3.3	4
13	High Efficiency Water Splitting using Ultrasound Coupled to a BaTiO <sub>3</sub> Nanofluid. <i>Advanced Science</i> , 2022, 9, e2105248.	5.6	17
14	On the mechanisms of DC conduction in electrospun PLZT/PVDF nanocomposite membranes. <i>Journal of Materials Science</i> , 2022, 57, 5084-5096.	1.7	8
15	Piezoelectric catalysis for efficient reduction of CO <sub>2</sub> using lead-free ferroelectric particulates. <i>Nano Energy</i> , 2022, 95, 107032.	8.2	40
16	TiO <sub>2</sub> nanocrystal rods on titanium microwires: growth, vacuum annealing, and photoelectrochemical oxygen evolution. <i>New Journal of Chemistry</i> , 2022, 46, 8385-8392.	1.4	2
17	Tuning triboelectric and energy harvesting properties of dielectric elastomers <i>via</i> dynamic ionic crosslinks. <i>Materials Advances</i> , 2022, 3, 4213-4226.	2.6	3
18	Hydraulic Pressure Ripple Energy Harvesting: Structures, Materials, and Applications (Adv. Energy) Tj ETQq0 0 0 rgBTj/Overlock 10 Tf 50	10.2	0

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19	Bistable energy harvesting backpack: Design, modeling, and experiments. Energy Conversion and Management, 2022, 259, 115441.	4.4	30
20	Improved photocatalytic performance of gradient reduced TiO <sub>2</sub> ceramics with aligned pore channels. , 2022, 1, 100025.		27
21	Understanding the Effects of Cross-Linking Density on the Self-Healing Performance of Epoxidized Natural Rubber and Natural Rubber. ACS Omega, 2022, 7, 15098-15105.	1.6	12
22	Ferroelectric ceramics and glass ceramics for photocatalysis. , 2022, , 297-322.		1
23	Developments and Perspectives on Robust Nano- and Microstructured Binder-Free Electrodes for Bifunctional Water Electrolysis and Beyond. Advanced Energy Materials, 2022, 12, .	10.2	63
24	Enhanced photocurrent in ferroelectric Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> materials via ferro-pyro-phototronic effect. Nano Energy, 2022, 98, 107312.	8.2	20
25	Peano-Hydraulically Amplified Self-Healing Electrostatic Actuators Based on a Novel Bilayer Polymer Shell for Enhanced Strain, Load, and Rotary Motion. Advanced Intelligent Systems, 2022, 4, 2270022.	3.3	0
26	Enhanced variable reluctance energy harvesting for self-powered monitoring. Applied Energy, 2022, 321, 119402.	5.1	9
27	Piezoelectric properties and related parameters of novel 1-2 composites based on single crystals of the PZN-PT type. Ferroelectrics, 2022, 591, 178-190.	0.3	1
28	Modelling of the circular edge-clamped interface of a hydraulic pressure energy harvester to determine power, efficiency and bandwidth. Mechanical Systems and Signal Processing, 2021, 146, 107013.	4.4	15
29	A system for characterisation of piezoelectric materials and associated electronics for vibration powered energy harvesting devices. Measurement: Journal of the International Measurement Confederation, 2021, 168, 108285.	2.5	15
30	Photo-Chlorine Production with Hydrothermally Grown and Vacuum-Annealed Nanocrystalline Rutile. Electrocatalysis, 2021, 12, 65-77.	1.5	5
31	Temperature-Pressure Hybrid Sensing All-Organic Stretchable Energy Harvester. ACS Applied Electronic Materials, 2021, 3, 248-259.	2.0	22
32	Piezoelectric Sensitivity and Anisotropy in 1-3-Type Composites Based on Lead-Free Ferroelectrics. Springer Proceedings in Materials, 2021, , 161-176.	0.1	1
33	Solvent Sorption-Induced Actuation of Composites Based on a Polymer of Intrinsic Microporosity. ACS Applied Polymer Materials, 2021, 3, 920-928.	2.0	8
34	Achievements and Prospects of Thermoelectric and Hybrid Energy Harvesters for Wearable Electronic Applications. , 2021, , 3-40.		1
35	Polarisation tuneable piezo-catalytic activity of Nb-doped PZT with low Curie temperature for efficient CO <sub>2</sub> reduction and H <sub>2</sub> generation. Nanoscale Advances, 2021, 3, 1362-1374.	2.2	39
36	Flexible ferroelectric wearable devices for medical applications. IScience, 2021, 24, 101987.	1.9	29

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37	Dynamic Polymer Networks: A New Avenue towards Sustainable and Advanced Soft Machines. <i>Angewandte Chemie</i> , 2021, 133, 13841-13852.	1.6	8
38	Dynamic Polymer Networks: A New Avenue towards Sustainable and Advanced Soft Machines. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13725-13736.	7.2	43
39	Piezoelectric-Driven Self-Sensing Leaf-Mimic Actuator Enabled by Integration of a Self-Healing Dielectric Elastomer and a Piezoelectric Composite. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000248.	3.3	7
40	2D Nanomaterials for Effective Energy Scavenging. <i>Nano-Micro Letters</i> , 2021, 13, 82.	14.4	36
41	Studying the creep behaviour of stretchable capacitive sensor with barium titanate silicone elastomer composite. <i>Sensors and Actuators A: Physical</i> , 2021, 319, 112560.	2.0	9
42	Scavenging Energy Sources Using Ferroelectric Materials. <i>Advanced Functional Materials</i> , 2021, 31, 2100905.	7.8	28
43	Dual response of osteoblast activity and antibacterial properties of polarized strontium substituted hydroxyapatite-Barium strontium titanate composites with controlled strontium substitution. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 2027-2035.	2.1	26
44	Construction of Bio-Piezoelectric Platforms: From Structures and Synthesis to Applications. <i>Advanced Materials</i> , 2021, 33, e2008452.	11.1	114
45	Mechanical Behaviour of Large Strain Capacitive Sensor with Barium Titanate Ecoflex Composite Used to Detect Human Motion. <i>Robotics</i> , 2021, 10, 69.	2.1	8
46	Challenges and Opportunities of Self-Healing Polymers and Devices for Extreme and Hostile Environments. <i>Advanced Materials</i> , 2021, 33, e2008052.	11.1	82
47	Differences and Similarities of Photocatalysis and Electrocatalysis in Two-Dimensional Nanomaterials: Strategies, Traps, Applications and Challenges. <i>Nano-Micro Letters</i> , 2021, 13, 156.	14.4	71
48	Bio-Piezoelectric Platforms: Construction of Bio-Piezoelectric Platforms: From Structures and Synthesis to Applications ( <i>Adv. Mater.</i> 27/2021). <i>Advanced Materials</i> , 2021, 33, 2170206.	11.1	4
49	Hierarchically structured lead-free barium strontium titanate for low-grade thermal energy harvesting. <i>Ceramics International</i> , 2021, 47, 18761-18772.	2.3	6
50	Enhanced swing electromagnetic energy harvesting from human motion. <i>Energy</i> , 2021, 228, 120591.	4.5	54
51	Flexible pillar-base structured piezocomposite with aligned porosity for piezoelectric energy harvesting. <i>Nano Energy</i> , 2021, 88, 106278.	8.2	37
52	Phase structure and properties of sodium bismuth titanate lead-free piezoelectric ceramics. <i>Progress in Materials Science</i> , 2021, 122, 100836.	16.0	139
53	Advanced opportunities and insights on the influence of nitrogen incorporation on the physico-electro-chemical properties of robust electrocatalysts for electrocatalytic energy conversion. <i>Coordination Chemistry Reviews</i> , 2021, 449, 214209.	9.5	28
54	Reply to the "Comment on "Giant pyroelectric energy harvesting and a negative electrocaloric effect in multilayered nanostructures" by X. Chen, V. Shvartsman, D. C. Lupascu and Q. M. Zhang, <i>Energy Environ. Sci.</i> , 2021, DOI: 10.1039/D0EE02548H. <i>Energy and Environmental Science</i> , 2021, 14, 1615-1617.	15.6	4

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55	Recent Advances in Pyroelectric Materials and Applications. <i>Small</i> , 2021, 17, e2103960.	5.2	77
56	Relationships between piezoelectric and energy-harvesting characteristics of 1â€²2â€² composites based on domain-engineered single crystals. <i>Ferroelectrics</i> , 2021, 583, 230-242.	0.3	1
57	Porous ferroelectric materials for energy technologies: current status and future perspectives. <i>Energy and Environmental Science</i> , 2021, 14, 6158-6190.	15.6	56
58	Tailoring the electrical and thermal conductivity of multi-component and multi-phase polymer composites. <i>International Materials Reviews</i> , 2020, 65, 129-163.	9.4	67
59	Shape memory properties of polyethylene/ethylene vinyl acetate /carbon nanotube composites. <i>Polymer Testing</i> , 2020, 81, 106227.	2.3	11
60	Significantly enhanced permittivity and energy density in dielectric composites with aligned BaTiO <sub>3</sub> lamellar structures. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3135-3144.	5.2	75
61	The effect of barium titanate ceramic loading on the stress relaxation behavior of barium titanateâ€silicone elastomer composites. <i>Polymer Engineering and Science</i> , 2020, 60, 3086-3094.	1.5	14
62	Self-Healing of Materials under High Electrical Stress. <i>Matter</i> , 2020, 3, 989-1008.	5.0	47
63	A stacked electromagnetic energy harvester with frequency up-conversion for swing motion. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	36
64	Triboelectric and Piezoelectric Nanogenerators for Future Soft Robots and Machines. <i>IScience</i> , 2020, 23, 101682.	1.9	70
65	Electronic structure engineering on two-dimensional (2D) electrocatalytic materials for oxygen reduction, oxygen evolution, and hydrogen evolution reactions. <i>Nano Energy</i> , 2020, 77, 105080.	8.2	157
66	Recent Progress in Hybridized Nanogenerators for Energy Scavenging. <i>IScience</i> , 2020, 23, 101689.	1.9	46
67	Enhanced Power Generation from the Interaction between Sweat and Electrodes for Human Health Monitoring. <i>ACS Energy Letters</i> , 2020, 5, 3708-3717.	8.8	28
68	In situ fabrication of carbon fibreâ€reinforced polymer composites with embedded piezoelectrics for inspection and energy harvesting applications. <i>Journal of Intelligent Material Systems and Structures</i> , 2020, 31, 1910-1919.	1.4	5
69	Piezoelectric Materials for Controlling Electro-Chemical Processes. <i>Nano-Micro Letters</i> , 2020, 12, 149.	14.4	87
70	Enhanced photocurrent via ferro-pyro-phototronic effect in ferroelectric BaTiO <sub>3</sub> materials for a self-powered flexible photodetector system. <i>Nano Energy</i> , 2020, 77, 105152.	8.2	44
71	Smart Manufacturing Process of Carbon-Based Low-Dimensional Structures and Fiber-Reinforced Polymer Composites for Engineering Applications. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 4162-4186.	1.2	14
72	Charge transfer excitons in a donorâ€acceptor amphidynamic crystal: the role of dipole orientational order. <i>Materials Horizons</i> , 2020, 7, 2951-2958.	6.4	8

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73	Soft Controllable Carbon Fibre-based Piezoresistive Self-Sensing Actuators. <i>Actuators</i> , 2020, 9, 79.	1.2	14
74	Experimental and Analytical Investigation of the Response of a Triboelectric Generator Under Different Operating Conditions. <i>Energy Technology</i> , 2020, 8, 2000576.	1.8	8
75	A coupled photo-piezo-catalytic effect in a BST-PDMS porous foam for enhanced dye wastewater degradation. <i>Nano Energy</i> , 2020, 77, 105305.	8.2	70
76	Effect of TiO <sub>2</sub> Nanotube Pore Diameter on Human Mesenchymal Stem Cells and Human Osteoblasts. <i>Nanomaterials</i> , 2020, 10, 2117.	1.9	18
77	Dynamic crosslinked rubbers for a green future: A material perspective. <i>Materials Science and Engineering Reports</i> , 2020, 141, 100561.	14.8	90
78	Demonstration of Enhanced Piezo-Catalysis for Hydrogen Generation and Water Treatment at the Ferroelectric Curie Temperature. <i>IScience</i> , 2020, 23, 101095.	1.9	64
79	Understanding the enhancement and temperature-dependency of the self-healing and electromechanical properties of dielectric elastomers containing mixed pendant polar groups. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5426-5436.	2.7	10
80	Chemical modification of the polymer of intrinsic microporosity PIM-1 for enhanced hydrogen storage. <i>Adsorption</i> , 2020, 26, 1083-1091.	1.4	16
81	Harnessing Plasticity in an Amine-Borane as a Piezoelectric and Pyroelectric Flexible Film. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7808-7812.	7.2	32
82	Harnessing Plasticity in an Amine-Borane as a Piezoelectric and Pyroelectric Flexible Film. <i>Angewandte Chemie</i> , 2020, 132, 7882-7886.	1.6	5
83	Thermal Energy Harvesting Using Pyroelectric-Electrochemical Coupling in Ferroelectric Materials. <i>Joule</i> , 2020, 4, 301-309.	11.7	103
84	One-structure-based multi-effects coupled nanogenerators for flexible and self-powered multi-functional coupled sensor systems. <i>Nano Energy</i> , 2020, 71, 104632.	8.2	58
85	Self-Healing Dielectric Elastomers for Damage-Tolerant Actuation and Energy Harvesting. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 7595-7604.	4.0	55
86	Time Domain Multiplexing for Efficiency Enhanced Piezoelectric Energy Harvesting in MEMS. <i>IEEE Electron Device Letters</i> , 2020, 41, 481-484.	2.2	3
87	Transient Analysis of a Current-Driven Full Wave AC/DC Converter for Indirect Characterization of Piezoelectric Devices during Energy Harvesting. <i>Energy Technology</i> , 2020, 8, 1901317.	1.8	3
88	The Emergent Behaviour of Thermal Networks and Its Impact on the Thermal Conductivity of Heterogeneous Materials and Systems. <i>Journal of Composites Science</i> , 2020, 4, 32.	1.4	1
89	Structure and Dielectric Properties of Electroactive Tetraaniline Grafted Non-Polar Elastomers. <i>Journal of Composites Science</i> , 2020, 4, 25.	1.4	6
90	Wireless Monitoring of Small Strains in Intelligent Robots via a Joule Heating Effect in Stretchable Graphene-Polymer Nanocomposites. <i>Advanced Functional Materials</i> , 2020, 30, 1910809.	7.8	68

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91	Nonlinear Response Identification of an Asymmetric Bistable Harvester Excited at Different Bias Angles by Multiscale Entropy and Recurrence Plot. <i>Journal of Computational and Nonlinear Dynamics</i> , 2020, 15, .	0.7	2
92	Dielectric and piezoelectric properties of porous lead-free 0.5Ba(Ca0.8Zr0.2)O3-0.5(Ba0.7Ca 0.3)TiO3 ceramics. <i>Materials Research Bulletin</i> , 2019, 112, 426-431.	2.7	39
93	A dual lane piezoelectric ring bender actuated nozzle-flapper servo valve for aero engine fuel metering. <i>Smart Materials and Structures</i> , 2019, 28, 115015.	1.8	11
94	Mutual Insight on Ferroelectrics and Hybrid Halide Perovskites: A Platform for Future Multifunctional Energy Conversion. <i>Advanced Materials</i> , 2019, 31, e1807376.	11.1	91
95	Piezoelectric Material-Polymer Composite Porous Foam for Efficient Dye Degradation via the Piezo-Catalytic Effect. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 27862-27869.	4.0	156
96	Design of flexible piezoelectric-pyroelectric nanogenerator for self-powered wearable sensor. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	2
97	Relations between the piezoelectric performance and quality factors in a corundum-containing composite. <i>Materials Chemistry and Physics</i> , 2019, 233, 194-202.	2.0	5
98	Methylammonium Lead Iodide Incorporated Poly(vinylidene fluoride) Nanofibers for Flexible Piezoelectric Pyroelectric Nanogenerator. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 27279-27287.	4.0	74
99	Interface design for high energy density polymer nanocomposites. <i>Chemical Society Reviews</i> , 2019, 48, 4424-4465.	18.7	531
100	Probability and output analysis of asymmetric bistable energy harvesters subjected to Gaussian white noise. <i>European Physical Journal Plus</i> , 2019, 134, 1.	1.2	10
101	Carbon fibre based flexible piezoresistive composites to empower inherent sensing capabilities for soft actuators. <i>Soft Matter</i> , 2019, 15, 8001-8011.	1.2	36
102	Modified energy harvesting figures of merit for stress- and strain-driven piezoelectric systems. <i>European Physical Journal: Special Topics</i> , 2019, 228, 1537-1554.	1.2	66
103	Electrical dual-percolation in MWCNTs/SBS/PVDF based thermoplastic elastomer (TPE) composites and the effect of mechanical stretching. <i>European Polymer Journal</i> , 2019, 112, 504-514.	2.6	16
104	Ice-templated poly(vinylidene fluoride) ferroelectrets. <i>Soft Matter</i> , 2019, 15, 825-832.	1.2	35
105	Recent advances in metal sulfides: from controlled fabrication to electrocatalytic, photocatalytic and photoelectrochemical water splitting and beyond. <i>Chemical Society Reviews</i> , 2019, 48, 4178-4280.	18.7	810
106	Experimental Studies on Effective Properties and Related Parameters of Piezo-Particulate Composites. <i>Springer Series in Materials Science</i> , 2019, , 55-85.	0.4	0
107	Piezo-Active Composites: Classification and Effective Physical Properties. <i>Springer Series in Materials Science</i> , 2019, , 1-23.	0.4	0
108	Aspects of Composite Manufacturing. <i>Springer Series in Materials Science</i> , 2019, , 25-53.	0.4	0

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109	Prediction of Effective Properties of Composites Based on Ferroelectric Ceramics. Springer Series in Materials Science, 2019, , 103-141.	0.4	0
110	A Novel Arch-Shaped Hybrid Composite Triboelectric Generator Using Carbon Fiber Reinforced Polymers. Energy Technology, 2019, 7, 1801005.	1.8	2
111	Nanoporous polymer-based composites for enhanced hydrogen storage. Adsorption, 2019, 25, 889-901.	1.4	24
112	Electric field distribution in porous piezoelectric materials during polarization. Acta Materialia, 2019, 173, 332-341.	3.8	39
113	A Novel Methodology for Economical Scale-Up of TiO <sub>2</sub> Nanotubes Fabricated on Ti and Ti Alloys. Journal of Nanotechnology, 2019, 2019, 1-13.	1.5	7
114	Hexagonal boron nitride nanosheets doped pyroelectric ceramic composite for high-performance thermal energy harvesting. Nano Energy, 2019, 60, 144-152.	8.2	34
115	A Self-Powered Wearable Pressure Sensor and Pyroelectric Breathing Sensor Based on GO Interfaced PVDF Nanofibers. ACS Applied Nano Materials, 2019, 2, 2013-2025.	2.4	168
116	Electrical and Mechanical Self-Healing in High-Performance Dielectric Elastomer Actuator Materials. Advanced Functional Materials, 2019, 29, 1808431.	7.8	92
117	Tailoring the geometric and electronic structure of tungsten oxide with manganese or vanadium doping toward highly efficient electrochemical and photoelectrochemical water splitting. Journal of Materials Chemistry A, 2019, 7, 6161-6172.	5.2	61
118	Solid-Gas Phase Photo-Catalytic Behaviour of Rutile and TiO <sub>n</sub> (1 < n < 2) Sub-Oxide Phases for Self-Cleaning Applications. Materials, 2019, 12, 170.	1.3	6
119	Tailoring porous piezoelectric properties for selected modes of energy harvesting. , 2019, , .		0
120	Domain orientations and piezoelectric properties in novel 2 <sup>nd</sup> -type composites with two single-crystal components. Ferroelectrics, 2019, 543, 115-129.	0.3	2
121	Piezoelectric performance of PZT-based materials with aligned porosity: experiment and modelling. Smart Materials and Structures, 2019, 28, 125021.	1.8	7
122	Barium Titanate Elastomer composite based capacitive stretch sensor. , 2019, , .		1
123	Self-Powered Smart Insole for Monitoring Human Gait Signals. Sensors, 2019, 19, 5336.	2.1	24
124	Highly Stretchable Capacitive Sensor with Printed Carbon Black Electrodes on Barium Titanate Elastomer Composite. Sensors, 2019, 19, 42.	2.1	43
125	Micro-scale to nano-scale generators for energy harvesting: Self powered piezoelectric, triboelectric and hybrid devices. Physics Reports, 2019, 792, 1-33.	10.3	111
126	Pyro-electrolytic water splitting for hydrogen generation. Nano Energy, 2019, 58, 183-191.	8.2	50



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127	Flexible Multifunctional Sensors for Wearable and Robotic Applications. <i>Advanced Materials Technologies</i> , 2019, 4, 1800626.	3.0	221
128	Ferroelectret materials and devices for energy harvesting applications. <i>Nano Energy</i> , 2019, 57, 118-140.	8.2	108
129	Magnetocaloric effect and piezoresponse of engineered ferroelectric-ferromagnetic heterostructures. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 473, 511-516.	1.0	7
130	Additive manufacture of multistable structures. <i>Smart Materials and Structures</i> , 2019, 28, 02LT02.	1.8	14
131	Assessment of the long-term stability of the polymer of intrinsic microporosity PIM-1 for hydrogen storage applications. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 332-337.	3.8	17
132	Nonlinear Response Identification of an Asymmetric Bistable Harvester Excited at Different Bias Angles by Multiscale Entropy and Recurrence Plot. , 2019, , .		0
133	Improved heat transfer for pyroelectric energy harvesting applications using a thermal conductive network of aluminum nitride in PMN/PMS/PZT ceramics. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5040-5051.	5.2	45
134	Cementitious Porous Material Applied to Precision Aerostatics Bearings. <i>International Journal of Precision Engineering and Manufacturing</i> , 2018, 19, 239-243.	1.1	4
135	Mechanical and dielectric properties of MWCNT filled chemically modified SBS/PVDF blends. <i>Composites Communications</i> , 2018, 8, 58-64.	3.3	10
136	1-3-5 Type Composites Based on Ferroelectrics: Electromechanical Coupling, Figures of Merit, and Piezotechnical Energy Harvesting Applications. <i>Energy Technology</i> , 2018, 6, 813-828.	1.8	18
137	All-fiber pyroelectric nanogenerator. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	5
138	Freeze cast porous barium titanate for enhanced piezoelectric energy harvesting. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 225301.	1.3	59
139	Energy harvesting from coupled bending-twisting oscillations in carbon-fibre reinforced polymer laminates. <i>Mechanical Systems and Signal Processing</i> , 2018, 107, 429-438.	4.4	14
140	Using a novel rigid-fluoride polymer to control the interfacial thickness of graphene and tailor the dielectric behavior of poly(vinylidene fluoride-trifluoroethylene-chlorotrifluoroethylene) nanocomposites. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 2826-2837.	1.3	35
141	Significantly improved energy density of BaTiO <sub>3</sub> nanocomposites by accurate interfacial tailoring using a novel rigid-fluoro-polymer. <i>Polymer Chemistry</i> , 2018, 9, 548-557.	1.9	55
142	Residual Energy Harvesting from Light Transients Using Hematite as an Intrinsic Photocapacitor in a Symmetrical Cell. <i>ACS Applied Energy Materials</i> , 2018, 1, 38-42.	2.5	5
143	AFM tip-based nanomachining with increased cutting speed at the tool-workpiece interface. <i>Precision Engineering</i> , 2018, 51, 536-544.	1.8	11
144	Theoretical Study on the Piezoelectric Performance of Lead-Free 1-3 Type Composites. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700548.	0.8	9

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145	Understanding the AC conductivity and permittivity of trapdoor chabazites for future development of next-generation gas sensors. <i>Microporous and Mesoporous Materials</i> , 2018, 260, 208-216.	2.2	11
146	Non-orthogonal bistable laminates for energy harvesting. <i>Materials Today: Proceedings</i> , 2018, 5, 13785-13794.	0.9	1
147	Use it or lose it: The influence of second order effects of practical components on storing energy harvested by pyroelectric effects. <i>TM Technisches Messen</i> , 2018, 85, 533-540.	0.3	3
148	Influence of Bias Angle on Output Performance of Nonlinear Asymmetric Energy Harvesters: Experimental Investigation. , 2018, , .		0
149	Janus nanostructures for heterogeneous photocatalysis. <i>Applied Physics Reviews</i> , 2018, 5, 041111.	5.5	51
150	Electromechanical Modelling of a Piezoelectric Stack Energy Harvester. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	2
151	Lanthanum-modified lead zirconate titanate based paint for sensor and energy harvesting applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 20931-20941.	1.1	7
152	Multiple solutions of asymmetric potential bistable energy harvesters: numerical simulation and experimental validation. <i>European Physical Journal B</i> , 2018, 91, 1.	0.6	21
153	Intrinsic Tuning of Poly(styrene- <i>butadiene</i> -styrene)-Based Self-Healing Dielectric Elastomer Actuators with Enhanced Electromechanical Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 38438-38448.	4.0	51
154	Model Validation of a Porous Piezoelectric Energy Harvester Using Vibration Test Data. <i>Vibration</i> , 2018, 1, 123-137.	0.9	6
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