Xiangyu Chen

List of Publications by Year in Descending Order

137 papers	5,593 citations	44 h-index	72 g-index
143 ext. papers	7,148 ext. citations	10.7 avg, IF	6.31 L-index

#	Paper	IF	Citations
137	Study of interfacial design for direct-current tribovoltaic generators. *Nano Energy*, **2022**, 94, 106957	17.1	3
136	Fish-Wearable Data Snooping Platform for Underwater Energy Harvesting and Fish Behavior Monitoring.. *Small*, **2022**, e2107232	11	7
135	Monitoring the Degree of Comfort of Shoes In-Motion Using Triboelectric Pressure Sensors with an Ultrawide Detection Range.. *ACS Nano*, **2022**,	16.7	8
134	Development of On-Site Rapid Detection Device for Soil Macronutrients Based on Capillary Electrophoresis and Capacitively Coupled Contactless Conductivity Detection (C4D) Method. *Chemosensors*, **2022**, 10, 84	4	1
133	Self-driven real-time angle vector sensor as security dialer based on bi-directional backstop triboelectric nanogenerator. *Nano Energy*, **2022**, 99, 107430	17.1	0
132	Fully Biodegradable Water-soluble Triboelectric Nanogenerator for Human Physiological Monitoring. *Nano Energy*, **2021**, 93, 106787	17.1	9
131	Study of Contact Electrification at Liquid-Gas Interface. *ACS Nano*, **2021**,	16.7	5
130	Prediction of Grain Output in Anhui Province Based on Machine Learning **2021**,		1
129	Self-Powered Room-Temperature Ethanol Sensor Based on Brush-Shaped Triboelectric Nanogenerator. *Research*, **2021**, 2021, 8564780	7.8	8
128	A universal managing circuit with stabilized voltage for maintaining safe operation of self-powered electronics system. *IScience*, **2021**, 24, 102502	6.1	7
127	Effect of Photo-Excitation on Contact Electrification at Liquid-Solid Interface. *ACS Nano*, **2021**, 15, 10609-10617	16.7	11
126	Contact Electrification at the Liquid-Solid Interface. *Chemical Reviews*, **2021**,	68.1	47
125	Alginate core–shell microcapsule reduces the DMSO addition-induced osmotic damage to cells by inhibiting cellular blebs. *Chinese Journal of Chemical Engineering*, **2021**, 33, 249-255	3.2	1
124	Refreshable Braille Display System Based on Triboelectric Nanogenerator and Dielectric Elastomer. *Advanced Functional Materials*, **2021**, 31, 2006612	15.6	44
123	Hybrid energy system based on solar cell and self-healing/self-cleaning triboelectric nanogenerator. *Nano Energy*, **2021**, 79, 105394	17.1	21
122	Self-powered electro-tactile system for virtual tactile experiences. *Science Advances*, **2021**, 7,	14.3	77
121	Self-Powered Persistent Phosphorescence for Reliable Optical Display. *ACS Energy Letters*, **2021**, 6, 3132-3140	23.1	6

120	Self-Healing and Elastic Triboelectric Nanogenerators for Muscle Motion Monitoring and Photothermal Treatment. *ACS Nano*, **2021**, 15, 14653-14661	16.7	27
119	Negative Triboelectric Polymers with Ultrahigh Charge Density Produced by Ion Implantation. *Nano Energy*, **2021**, 90, 106574	17.1	10
118	Studying of contact electrification and electron transfer at liquid-liquid interface. *Nano Energy*, **2021**, 87, 106191	17.1	14
117	Water purification system based on self-powered ozone production. *Nano Energy*, **2021**, 88, 106230	17.1	3
116	Triboelectric nanogenerator-based anodic bonding of silicon to glass with an intermediate aluminum layer. *Sensors and Actuators A: Physical*, **2021**, 331, 112950	3.9	1
115	CNTs/Wood Composite Nanogenerator for Producing Both Steam and Electricity. *ACS Applied Electronic Materials*, **2021**, 3, 5287-5295	4	2
114	Contributions of Different Functional Groups to Contact Electrification of Polymers. *Advanced Materials*, **2020**, 32, e2001307	24	88
113	Sustainable high-voltage source based on triboelectric nanogenerator with a charge accumulation strategy. *Energy and Environmental Science*, **2020**, 13, 2178-2190	35.4	82
112	The tribovoltaic effect and electron transfer at a liquid-semiconductor interface. *Nano Energy*, **2020**, 76, 105070	17.1	48
111	Environmental energy harvesting based on triboelectric nanogenerators. *Nanotechnology*, **2020**, 31, 242001	3.4	54
110	Self-cleaning triboelectric nanogenerator based on TiO2 photocatalysis. *Nano Energy*, **2020**, 70, 104499	17.1	43
109	Thermochromic triboelectric nanogenerator enabling direct visualization of temperature change during operation. *Chemical Engineering Journal*, **2020**, 388, 124369	14.7	18
108	Self-Powered Sensor Based on Bionic Antennae Arrays and Triboelectric Nanogenerator for Identifying Noncontact Motions. *Advanced Materials Technologies*, **2020**, 5, 1900789	6.8	16
107	Manipulating the triboelectric surface charge density of polymers by low-energy helium ion irradiation/implantation. *Energy and Environmental Science*, **2020**, 13, 896-907	35.4	135
106	Probing Contact-Electrification-Induced Electron and Ion Transfers at a Liquid-Solid Interface. *Advanced Materials*, **2020**, 32, e1905696	24	172
105	A flexible and wide pressure range triboelectric sensor array for real-time pressure detection and distribution mapping. *Journal of Materials Chemistry A*, **2020**, 8, 23827-23833	13	23
104	Electron Transfer as a Liquid Droplet Contacting a Polymer Surface. *ACS Nano*, **2020**,	16.7	55
103	Recent progress in the development of portable high voltage source based on triboelectric nanogenerator. *Smart Materials in Medicine*, **2020**, 1, 66-76	12.9	3

102	Energy Harvesting from Breeze Wind (0.7 6 m s 1) Using Ultra-Stretchable Triboelectric Nanogenerator. *Advanced Energy Materials*, **2020**, 10, 2001770	21.8	51
101	Anodic bonding driven by the pulse current signal of triboelectric nanogenerator. *Nano Energy*, **2020**, 73, 104759	17.1	2
100	Electron transfer in nano-scale contact electrification: Atmosphere effect on the surface states of dielectrics. *Nano Energy*, **2019**, 65, 103956	17.1	23
99	Ionic polymer-metal composites actuator driven by the pulse current signal of triboelectric nanogenerator. *Nano Energy*, **2019**, 66, 104139	17.1	21
98	Environmental Energy Harvesting Adapting to Different Weather Conditions and Self-Powered Vapor Sensor Based on Humidity-Responsive Triboelectric Nanogenerators. *ACS Applied Materials & Interfaces*, **2019**, 11, 6143-6153	9.5	44
97	Power generation from the interaction of a liquid droplet and a liquid membrane. *Nature Communications*, **2019**, 10, 2264	17.4	159
96	Electron Transfer in Nanoscale Contact Electrification: Photon Excitation Effect. *Advanced Materials* , **2019**, 31, e1901418	24	54
95	Electron Transfer in Nanoscale Contact Electrification: Effect of Temperature in the Metal-Dielectric Case. *Advanced Materials*, **2019**, 31, e1808197	24	94
94	Octopus tentacles inspired triboelectric nanogenerators for harvesting mechanical energy from highly wetted surface. *Nano Energy*, **2019**, 60, 493-502	17.1	30
93	An aptamer-based new method for competitive fluorescence detection of exosomes. *Nanoscale*, **2019**, 11, 15589-15595	7.7	82
92	Dual-Stimulus Smart Actuator and Robot Hand Based on a Vapor-Responsive PDMS Film and Triboelectric Nanogenerator. *ACS Applied Materials & Interfaces*, **2019**, 11, 42504-42511	9.5	17
91	Regulating the output performance of triboelectric nanogenerator by using P(VDF-TrFE) Langmuir monolayers. *Nano Energy*, **2019**, 66, 104090	17.1	24
90	Quantifying the power output and structural figure-of-merits of triboelectric nanogenerators in a charging system starting from the Maxwell displacement current. *Nano Energy*, **2019**, 59, 380-389	17.1	56
89	Multifunctional Fe3O4@mTiO2@noble metal composite NPs as ultrasensitive SERS substrates for trace detection. *Arabian Journal of Chemistry*, **2019**, 12, 2017-2027	5.9	6
88	High-voltage applications of the triboelectric nanogenerator Opportunities brought by the unique energy technology. *MRS Energy & Sustainability*, **2019**, 6, 1	2.2	12
87	Long Distance Transport of Microdroplets and Precise Microfluidic Patterning Based on Triboelectric Nanogenerator. *Advanced Materials Technologies*, **2019**, 4, 1800300	6.8	14
86	Electrically Responsive Materials and Devices Directly Driven by the High Voltage of Triboelectric Nanogenerators. *Advanced Functional Materials*, **2019**, 29, 1806351	15.6	73
85	Butterfly-Inspired Triboelectric Nanogenerators with Spring-Assisted Linkage Structure for Water Wave Energy Harvesting. *Advanced Materials Technologies*, **2019**, 4, 1800514	6.8	49

84	Self-Powered Microfluidic Transport System Based on Triboelectric Nanogenerator and Electrowetting Technique. *ACS Nano*, **2018**, 12, 1491-1499	16.7	105
83	Three-dimensional ultraflexible triboelectric nanogenerator made by 3D printing. *Nano Energy*, **2018**, 45, 380-389	17.1	135
82	Coupled Triboelectric Nanogenerator Networks for Efficient Water Wave Energy Harvesting. *ACS Nano*, **2018**, 12, 1849-1858	16.7	199
81	Motion behavior of water droplets driven by triboelectric nanogenerator. *Applied Physics Letters*, **2018**, 112, 183701	3.4	13
80	Studying about applied force and the output performance of sliding-mode triboelectric nanogenerators. *Nano Energy*, **2018**, 48, 292-300	17.1	37
79	Controllable long focal length microlens based on thermal expansion. *Applied Optics*, **2018**, 57, 4277-4282	1.7	5
78	Structural figure-of-merits of triboelectric nanogenerators at powering loads. *Nano Energy*, **2018**, 51, 688-697	17.1	40
77	Fully Elastic and Metal-Free Tactile Sensors for Detecting both Normal and Tangential Forces Based on Triboelectric Nanogenerators. *Advanced Functional Materials*, **2018**, 28, 1802989	15.6	90
76	Microfluidic dielectrophoresis device for trapping, counting and detecting Shewanella oneidensis at the cell level. *Biosensors and Bioelectronics*, **2018**, 99, 416-423	11.8	24
75	Directly Visualizing Tactile Perception and Ultrasensitive Tactile Sensors by Utilizing Body-Enhanced Induction of Ambient Electromagnetic Waves. *Advanced Functional Materials*, **2018**, 28, 1805277	15.6	22
74	Self-powered hybrid flexible nanogenerator and its application in bionic micro aerial vehicles. *Nano Energy*, **2018**, 54, 10-16	17.1	25
73	Capsule Triboelectric Nanogenerators: Toward Optional 3D Integration for High Output and Efficient Energy Harvesting from Broadband-Amplitude Vibrations. *ACS Nano*, **2018**, 12, 9947-9957	16.7	16
72	Giant Voltage Enhancement via Triboelectric Charge Supplement Channel for Self-Powered Electroadhesion. *ACS Nano*, **2018**, 12, 10262-10271	16.7	72
71	Inflammation-free and gas-permeable on-skin triboelectric nanogenerator using soluble nanofibers. *Nano Energy*, **2018**, 51, 260-269	17.1	34
70	Modeling a dielectric elastomer as driven by triboelectric nanogenerator. *Applied Physics Letters*, **2017**, 110, 033505	3.4	16
69	Uptake of silver nanoparticles by DHA-treated cancer cells examined by surface-enhanced Raman spectroscopy in a microfluidic chip. *Lab on A Chip*, **2017**, 17, 1306-1313	7.2	21
68	Self-powered modulation of elastomeric optical grating by using triboelectric nanogenerator. *Nano Energy*, **2017**, 38, 91-100	17.1	60
67	Ultrastretchable, transparent triboelectric nanogenerator as electronic skin for biomechanical energy harvesting and tactile sensing. *Science Advances*, **2017**, 3, e1700015	14.3	674

66	A multi-dielectric-layered triboelectric nanogenerator as energized by corona discharge. *Nanoscale*, **2017**, 9, 9668-9675	7.7	48
65	Effect of current density on the deposit stress in gold electroplating. *Modern Physics Letters B*, **2017**, 31, 1750188	1.6	
64	Self-Powered Electrostatic Actuation Systems for Manipulating the Movement of both Microfluid and Solid Objects by Using Triboelectric Nanogenerator. *Advanced Functional Materials*, **2017**, 27, 1606408	15.6	66
63	Fluid eddy induced piezo-promoted photodegradation of organic dye pollutants in wastewater on ZnO nanorod arrays/3D Ni foam. *Materials Today*, **2017**, 20, 501-506	21.8	102
62	On-Skin Triboelectric Nanogenerator and Self-Powered Sensor with Ultrathin Thickness and High Stretchability. *Small*, **2017**, 13, 1702929	11	89
61	Enhanced Triboelectric Nanogenerators Based on MoS Monolayer Nanocomposites Acting as Electron-Acceptor Layers. *ACS Nano*, **2017**, 11, 8356-8363	16.7	126
60	Self-Powered Electrostatic Filter with Enhanced Photocatalytic Degradation of Formaldehyde Based on Built-in Triboelectric Nanogenerators. *ACS Nano*, **2017**, 11, 12411-12418	16.7	120
59	Tunable Optical Modulator by Coupling a Triboelectric Nanogenerator and a Dielectric Elastomer. *Advanced Functional Materials*, **2017**, 27, 1603788	15.6	71
58	Integrated triboelectric nanogenerator array based on air-driven membrane structures for water wave energy harvesting. *Nano Energy*, **2017**, 31, 351-358	17.1	128
57	Observation Interface of PDMS Membrane in a Microfluidic Chip Based on One-Step Molding. *Micromachines*, **2017**, 8, 64	3.3	4
56	Charging System Optimization of Triboelectric Nanogenerator for Water Wave Energy Harvesting and Storage. *ACS Applied Materials & Interfaces*, **2016**, 8, 21398-406	9.5	56
55	A gold microarray electrode on a poly(methylmethacrylate) substrate to improve the performance of microbial fuel cells by modifying biofilm formation. *RSC Advances*, **2016**, 6, 114937-114943	3.7	4
54	A dielectrophoresis method to manipulate and monitor the Shewanella oneidensis. *Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems*, **2016**, 230, 85-90	1.4	3
53	Triboelectric Nanogenerator as a Self-Powered Communication Unit for Processing and Transmitting Information. *ACS Nano*, **2016**, 10, 3944-50	16.7	47
52	Microstructure-Enhanced Liquid?Liquid Extraction in a Real-Time Fluorescence Detection Microfluidic Chip. *Micromachines*, **2016**, 7,	3.3	7
51	Probing the Photovoltage and Photocurrent in Perovskite Solar Cells with Nanoscale Resolution. *Advanced Functional Materials*, **2016**, 26, 3048-3058	15.6	64
50	Stimulating Acrylic Elastomers by a Triboelectric Nanogenerator □Toward Self-Powered Electronic Skin and Artificial Muscle. *Advanced Functional Materials*, **2016**, 26, 4906-4913	15.6	73
49	Self-Powered Random Number Generator Based on Coupled Triboelectric and Electrostatic Induction Effects at the Liquid-Dielectric Interface. *ACS Nano*, **2016**, 10, 11434-11441	16.7	23

48	Theoretical study on rotary-sliding disk triboelectric nanogenerators in contact and non-contact modes. *Nano Research*, **2016**, 9, 1057-1070	10	56
47	Organic double layer element driven by triboelectric nanogenerator: Study of carrier behavior by non-contact optical method. *Chemical Physics Letters*, **2016**, 646, 64-68	2.5	4
46	A modified discrete algebraic reconstruction technique for multiple grey image reconstruction for limited angle range tomography. *Journal of Synchrotron Radiation*, **2016**, 23, 606-16	2.4	7
45	Figures-of-Merit for Rolling-Friction-Based Triboelectric Nanogenerators. *Advanced Materials Technologies*, **2016**, 1, 1600017	6.8	24
44	Theory of freestanding triboelectric-layer-based nanogenerators. *Nano Energy*, **2015**, 12, 760-774	17.1	283
43	Theoretical Study of Rotary Freestanding Triboelectric Nanogenerators. *Advanced Functional Materials*, **2015**, 25, 2928-2938	15.6	102
42	Triboelectric sensor as self-powered signal reader for scanning probe surface topography imaging. *Nanotechnology*, **2015**, 26, 165501	3.4	10
41	Ultralong focal length microlens array fabricated based on SU-8 photoresist. *Applied Optics*, **2015**, 54, 5088-93	0.2	9
40	Direct probing of contact electrification by using optical second harmonic generation technique. *Scientific Reports*, **2015**, 5, 13019	4.9	15
39	Field emission device driven by self-powered contact-electrification: Simulation and experimental analysis. *Applied Physics Letters*, **2015**, 107, 114103	3.4	14
38	Organic Tribotronic Transistor for Contact-Electrification-Gated Light-Emitting Diode. *Advanced Functional Materials*, **2015**, 25, 5625-5632	15.6	55
37	Structural Optimization of Triboelectric Nanogenerator for Harvesting Water Wave Energy. *ACS Nano*, **2015**, 9, 12562-72	16.7	154
36	Self-Powered Trace Memorization by Conjunction of Contact-Electrification and Ferroelectricity. *Advanced Functional Materials*, **2015**, 25, 739-747	15.6	59
35	Interfacial charging originated from the conductivity decrease of C60 layer in IZO/pentacene/C60/Al organic double-layer solar cells. *Organic Electronics*, **2014**, 15, 162-168	3.5	2
34	Metal nanoparticles in organic field-effect transistor: Transition from charge trapping to conduction mechanism. *Thin Solid Films*, **2014**, 554, 189-193	2.2	2
33	Interfacial charging of copper phthalocyanine/C60 double-layer organic solar cells induced by photoillumination: Effect of photoconductivity change. *Thin Solid Films*, **2014**, 554, 158-161	2.2	4
32	Study of interface layer effect in organic solar cells by electric-field-induced optical second-harmonic generation measurement. *Thin Solid Films*, **2014**, 554, 51-53	2.2	6
31	Study of multiple photovoltaic processes in stacked organic active layers. *Organic Electronics*, **2014**, 15, 2014-2020	3.5	6

30	Impact of the interfacial traps on the charge accumulation in organic transistors. *Journal of Experimental Nanoscience*, **2014**, 9, 994-1002	1.9	1
29	Selective observation of photo-induced electric fields inside different material components in bulk-heterojunction organic solar cell. *Applied Physics Letters*, **2014**, 104, 013306	3.4	17
28	Reliability and Validity Evaluation Based on Monte Carlo Simulations in Two-Stage Cluster Sampling on Sensitive Question Survey. *Lecture Notes in Electrical Engineering*, **2013**, 647-654	0.2	
27	Study of blocking effect of Cu-phthalocyanine layer in zinc oxide/pentacene/CuPc/C60/Al organic solar cells by electric field-induced optical second harmonic generation measurement. *Organic Electronics*, **2013**, 14, 320-325	3.5	22
26	Analysis of Interfacial Charging Process in Pentacene/C60/Bathocuproine Triple-Layer Organic Solar Cells Using a Maxwell□Wagner Model. *Japanese Journal of Applied Physics*, **2013**, 52, 04CR05	1.4	4
25	Impact of Illumination on Charge Injection and Accumulation in Organic Transistor in Presence of Plasmonic Nanoparticles. *Japanese Journal of Applied Physics*, **2013**, 52, 04CK08	1.4	2
24	Direct Probing of Internal Electric-fields in Fullerene Diodes Using Electric-field-induced Second-harmonic Generation Measurement. *Molecular Crystals and Liquid Crystals*, **2013**, 578, 50-54	0.5	2
23	Reliability and Validity Assessment of Cluster Sampling on Multinomial Sensitive Question by Monte Carlo Simulation. *Communications in Computer and Information Science*, **2013**, 212-221	0.3	
22	Investigation of Interfacial Charging Process of Pentacene/C60/BCP Triple-Layer Organic Solar Cells. *IEICE Transactions on Electronics*, **2013**, E96.C, 358-361	0.4	
21	Analyzing photo-induced interfacial charging in IZO/pentacene/C60/bathocuproine/Al organic solar cells by electric-field-induced optical second-harmonic generation measurement. *Journal of Applied Physics*, **2012**, 111, 113711	2.5	20
20	Analyzing Open-Voltage of Double-Layer Organic Solar Cells Using Optical Electric-Field-Induced Second-Harmonic Generation. *Materials Research Society Symposia Proceedings*, **2012**, 1390, 118		1
19	Analyzing Photo Induced Internal Electric Field in Pentacene/C$_{60}$ Double-Layer Organic Solar Cells under Various External Voltages by Electric-Field-Induced Optical Second Harmonic Generation Measurement. *Japanese Journal of Applied Physics*, **2012**, 51, 041605	1.4	1
18	Analysis of Anomalous Discharging Processes in Pentacene/C$_{60}$ Double-Layer Organic Solar Cell. *Japanese Journal of Applied Physics*, **2012**, 51, 02BK01	1.4	1
17	Analysis of Anomalous Discharging Processes in Pentacene/C60Double-Layer Organic Solar Cell. *Japanese Journal of Applied Physics*, **2012**, 51, 02BK01	1.4	4
16	Analysis of Sensitive Questions of MSM Based on RRT. *Communications in Computer and Information Science*, **2012**, 273-279	0.3	
15	Application of Monte Carlo Simulation in Reliability and Validity Evaluation of Two-Stage Cluster Sampling on Multinomial Sensitive Question. *Lecture Notes in Computer Science*, **2012**, 261-268	0.9	
14	Analyzing Photo Induced Internal Electric Field in Pentacene/C60Double-Layer Organic Solar Cells under Various External Voltages by Electric-Field-Induced Optical Second Harmonic Generation Measurement. *Japanese Journal of Applied Physics*, **2012**, 51, 041605	1.4	2
13	Analyzing interfacial carrier charging in pentacene/C60 double-layer organic solar cells by optical electric field induced second-harmonic generation measurement. *Chemical Physics Letters*, **2011**, 511, 491-495	2.5	20

12	Analyzing photovoltaic effect of double-layer organic solar cells as a Maxwell-Wagner effect system by optical electric-field-induced second-harmonic generation measurement. *Journal of Applied Physics*, **2011**, 110, 103717	2.5	24
11	Determination of Lifetime of Double-Layer CuPc/C60 Organic Solar Cells by Optical Electric-Field-Induced Second-Harmonic Generation Measurement. *Physics Procedia*, **2011**, 14, 167-171		
10	Analysis of interface carrier accumulation and relaxation in pentacene/C60 double-layer organic solar cell by impedance spectroscopy and electric-field-induced optical second harmonic generation. *Journal of Applied Physics*, **2011**, 110, 074509	2.5	22
9	Analyzing carrier lifetime of double-layer organic solar cells by using optical electric-field-induced second-harmonic generation measurement. *Applied Physics Letters*, **2011**, 98, 133507	3.4	41
8	A MINIATURE HIGH-SPEED PIEZOELECTIRC MOTOR WITH A DISK-PIVOT STRUCTURE. *International Journal of Modern Physics B*, **2010**, 24, 2404-2409	1.1	1
7	Reduction of Hysteresis in Organic Field-Effect Transistor by Ferroelectric Gate Dielectric. *Japanese Journal of Applied Physics*, **2010**, 49, 021601	1.4	12
6	Modeling of threshold voltage in pentacene organic field-effect transistors. *Journal of Applied Physics*, **2010**, 107, 124506	2.5	41
5	Tuning of Threshold Voltage in Organic Field-Effect Transistor by Dipole Monolayer. *Japanese Journal of Applied Physics*, **2010**, 49, 04DK04	1.4	12
4	Study of phase transition of two-dimensional ferroelectric copolymer P(VDF-TrFE) Langmuir monolayer by Maxwell displacement current and Brewster angle microscopy. *Journal of Chemical Physics*, **2009**, 131, 104702	3.9	16
3	Self-healing, mechanically robust, 3D printable ionogel for highly sensitive and long-term reliable ionotronics. *Journal of Materials Chemistry A*,	13	5
2	Predicting Organic Matter Content, Total Nitrogen and pH Value of Lime Concretion Black Soil Based on Visible and Near Infrared Spectroscopy. *Eurasian Soil Science*,1	1.5	1
1	Triboelectric Polymer with High Thermal Charge Stability for Harvesting Energy from 200℃ Flowing Air. *Advanced Functional Materials*,2106082	15.6	13