

Wenbo Ding

List of Publications by Year in descending order

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53
papers

3,981
citations

218677

26
h-index

315739

38
g-index

53
all docs

53
docs citations

53
times ranked

3805
citing authors

#	ARTICLE	IF	CITATIONS
1	Triboelectric Nanogenerator: A Foundation of the Energy for the New Era. <i>Advanced Energy Materials</i> , 2019, 9, 1802906.	19.5	1,086
2	Vitrimer Elastomer-Based Jigsaw Puzzle-Like Healable Triboelectric Nanogenerator for Self-Powered Wearable Electronics. <i>Advanced Materials</i> , 2018, 30, e1705918.	21.0	265
3	Shape Memory Polymers for Body Motion Energy Harvesting and Self-Powered Mechanosensing. <i>Advanced Materials</i> , 2018, 30, 1705195.	21.0	249
4	Triboelectric microplasma powered by mechanical stimuli. <i>Nature Communications</i> , 2018, 9, 3733.	12.8	212
5	A Hierarchically Nanostructured Cellulose Fiber-Based Triboelectric Nanogenerator for Self-Powered Healthcare Products. <i>Advanced Functional Materials</i> , 2018, 28, 1805540.	14.9	180
6	Human-Machine Interfacing Enabled by Triboelectric Nanogenerators and Tribotronics. <i>Advanced Materials Technologies</i> , 2019, 4, 1800487.	5.8	169
7	An ultrathin rechargeable solid-state zinc ion fiber battery for electronic textiles. <i>Science Advances</i> , 2021, 7, eabl3742.	10.3	145
8	Maximized Effective Energy Output of Contact-Separation-Triggered Triboelectric Nanogenerators as Limited by Air Breakdown. <i>Advanced Functional Materials</i> , 2017, 27, 1700049.	14.9	144
9	A Self-Powered Dynamic Displacement Monitoring System Based on Triboelectric Accelerometer. <i>Advanced Energy Materials</i> , 2017, 7, 1700565.	19.5	117
10	Self-Powered Multifunctional Motion Sensor Enabled by Magnetic-Regulated Triboelectric Nanogenerator. <i>ACS Nano</i> , 2018, 12, 5726-5733.	14.6	109
11	An Indoor Broadband Broadcasting System Based on PLC and VLC. <i>IEEE Transactions on Broadcasting</i> , 2015, 61, 299-308.	3.2	99
12	A Hybridized Triboelectric-Electromagnetic Water Wave Energy Harvester Based on a Magnetic Sphere. <i>ACS Nano</i> , 2019, 13, 2349-2356.	14.6	92
13	Complementary Electromagnetic-Triboelectric Active Sensor for Detecting Multiple Mechanical Triggering. <i>Advanced Functional Materials</i> , 2018, 28, 1705808.	14.9	87
14	Piezo-Phototronic Effect on Selective Electron or Hole Transport through Depletion Region of Vis-NIR Broadband Photodiode. <i>Advanced Materials</i> , 2017, 29, 1701412.	21.0	82
15	Contact-Electrification between Two Identical Materials: Curvature Effect. <i>ACS Nano</i> , 2019, 13, 2034-2041.	14.6	78
16	Time-Frequency Joint Sparse Channel Estimation for MIMO-OFDM Systems. <i>IEEE Communications Letters</i> , 2015, 19, 58-61.	4.1	74
17	TriboPump: A Low-Cost, Hand-Powered Water Disinfection System. <i>Advanced Energy Materials</i> , 2019, 9, 1901320.	19.5	74
18	Underwater wireless communication via TENG-generated Maxwell's displacement current. <i>Nature Communications</i> , 2022, 13, .	12.8	73

#	ARTICLE	IF	CITATIONS
19	Double Kill: Compressive-Sensing-Based Narrow-Band Interference and Impulsive Noise Mitigation for Vehicular Communications. IEEE Transactions on Vehicular Technology, 2016, 65, 5099-5109.	6.3	67
20	Electrohydrodynamic Jet Printing Driven by a Triboelectric Nanogenerator. Advanced Functional Materials, 2019, 29, 1901102.	14.9	59
21	Alternating Current Photovoltaic Effect. Advanced Materials, 2020, 32, e1907249.	21.0	54
22	Triboelectric nanogenerators enabled internet of things: A survey. Intelligent and Converged Networks, 2020, 1, 115-141.	4.8	47
23	Field Emission of Electrons Powered by a Triboelectric Nanogenerator. Advanced Functional Materials, 2018, 28, 1800610.	14.9	44
24	Boost the Performance of Triboelectric Nanogenerators through Circuit Oscillation. Advanced Energy Materials, 2019, 9, 1900772.	19.5	44
25	Integrated power line and visible light communication system compatible with multi-service transmission. IET Communications, 2017, 11, 104-111.	2.2	36
26	Indoor hospital communication systems: An integrated solution based on power line and visible light communication. , 2014, , .		32
27	Novel Approach to Design Time-Domain Training Sequence for Accurate Sparse Channel Estimation. IEEE Transactions on Broadcasting, 2016, 62, 512-520.	3.2	30
28	Spectrally Efficient CSI Acquisition for Power Line Communications: A Bayesian Compressive Sensing Perspective. IEEE Journal on Selected Areas in Communications, 2016, 34, 2022-2032.	14.0	26
29	Nonorthogonal Time-Frequency Training-Sequence-Based CSI Acquisition for MIMO Systems. IEEE Transactions on Vehicular Technology, 2016, 65, 5714-5719.	6.3	26
30	Structured Compressive Sensing-Based Channel Estimation for Time Frequency Training OFDM Systems Over Doubly Selective Channel. IEEE Wireless Communications Letters, 2017, 6, 266-269.	5.0	23
31	Two-Dimensional Structured-Compressed-Sensing-Based NBI Cancellation Exploiting Spatial and Temporal Correlations in MIMO Systems. IEEE Transactions on Vehicular Technology, 2016, 65, 9020-9028.	6.3	20
32	Intercommunity Detection Scheme for Social Internet of Things: Compressive Sensing Over Graphs Approach. IEEE Internet of Things Journal, 2018, 5, 4550-4557.	8.7	19
33	Structured compressive sensing-based non-orthogonal time-domain training channel state information acquisition for multiple input multiple output systems. IET Communications, 2016, 10, 685-690.	2.2	15
34	Sunlight-Triggerable Transient Energy Harvester and Sensors Based on Triboelectric Nanogenerator Using Acid-Sensitive Poly(phthalaldehyde). Advanced Electronic Materials, 2019, 5, 1900725.	5.1	15
35	Non-intrusive power line quality monitoring based on power line communications. , 2013, , .		13
36	Sensing beyond itself: Multi-functional use of ubiquitous signals towards wearable applications. , 2021, 116, 103091.		13

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37	Energy-efficient orthogonal frequency division multiplexing scheme based on time-frequency joint channel estimation. IET Communications, 2014, 8, 3406-3413.	2.2	10
38	ℓ_1 -Minimization Based Symbol Detection for Generalized Space Shift Keying. IEEE Communications Letters, 2015, 19, 1109-1112.	4.1	10
39	Smartphone-powered efficient water disinfection at the point of use. Npj Clean Water, 2020, 3, .	8.0	9
40	Sparse Bayesian Learning Based Symbol Detection for Generalised Spatial Modulation in Large-Scale MIMO Systems. , 2015, , .		7
41	Compressive sensing based time-frequency joint non-orthogonal multiple access. , 2016, , .		7
42	Out-of-band power suppression for TDS-OFDM systems. , 2013, , .		4
43	Planar Magnetic Actuation for Soft and Rigid Robots Using a Scalable Electromagnet Array. IEEE Robotics and Automation Letters, 2022, 7, 9264-9270.	5.1	4
44	Measurement and prediction of DTMB reception quality in single frequency networks. , 2011, , .		3
45	Approach to suppress out-of-band emission for dual pseudo noise padded time-domain synchronous orthogonal frequency division multiplexing systems. IET Communications, 2015, 9, 1606-1614.	2.2	3
46	Joint time-frequency channel estimation method for OFDM systems based on compressive sensing. , 2014, , .		2
47	The Modeling and Prediction of the Receive Quality under Single Frequency Networks for DTMB System. , 2011, , .		1
48	Spectrum notch techniques for TDS-OFDM system. , 2013, , .		1
49	Dynamic Matching Based Distributed Spectrum Trading in Multi-Radio Multi-Channel CRNs. , 2016, , .		1
50	Compressive Sensing over Graphs Based Inter-Community Detection Scheme in Mobile Social Networks. , 2018, , .		1
51	Sparse Bayesian Learning Based Symbol Detection for Generalised Spatial Modulation in Large-Scale MIMO Systems. , 2014, , .		0
52	HTPad: Hexagon-fractal TENG Pad for Scalable Touch Control. , 2021, , .		0
53	Reprint of: Sensing beyond itself: Multi-functional use of ubiquitous signals towards wearable applications. , 2022, 125, 103571.		0