Qijun Sun

List of Publications by Year in descending order

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64 papers	4,779 citations	101384 36 h-index	110170 64 g-index
65 all docs	65 docs citations	65 times ranked	5417 citing authors

#	Article	IF	Citations
1	On-Chip 3D Zn/NiOOH Helical Electrodes for High-Energy-Density Microbattery. ACS Applied Energy Materials, 2022, 5, 6282-6290.	2.5	2
2	Kirigami interactive triboelectric mechanologic. Nano Energy, 2022, 99, 107345.	8.2	11
3	Stretchable multifunctional self-powered systems with Cu-EGaIn liquid metal electrodes. Nano Energy, 2022, 101, 107582.	8.2	30
4	Scalable fabrication of hierarchically structured graphite/polydimethylsiloxane composite films for large-area triboelectric nanogenerators and self-powered tactile sensing. Nano Energy, 2021, 80, 105521.	8.2	55
5	Multifunctional Coaxial Energy Fiber toward Energy Harvesting, Storage, and Utilization. ACS Nano, 2021, 15, 1597-1607.	7.3	107
6	Paper-based triboelectric nanogenerators and their applications: a review. Beilstein Journal of Nanotechnology, 2021, 12, 151-171.	1.5	27
7	Bioinspired mechano-photonic artificial synapse based on graphene/MoS ₂ heterostructure. Science Advances, 2021, 7, .	4.7	184
8	Contact-electrification-activated artificial afferents at femtojoule energy. Nature Communications, 2021, 12, 1581.	5.8	117
9	Fiber-Shaped Triboiontronic Electrochemical Transistor. Research, 2021, 2021, 9840918.	2.8	22
10	Piezoelectric nanocomposites for sonodynamic bacterial elimination and wound healing. Nano Today, 2021, 37, 101104.	6.2	164
11	Bandgap Modulation in BP Field Effect Transistor and Its Applications. Advanced Electronic Materials, 2021, 7, 2100228.	2.6	2
12	Multibit tribotronic nonvolatile memory based on van der Waals heterostructures. Nano Energy, 2021, 83, 105785.	8.2	21
13	Piezoelectric Nanogenerators Derived Selfâ€Powered Sensors for Multifunctional Applications and Artificial Intelligence. Advanced Functional Materials, 2021, 31, 2102983.	7.8	163
14	Large scale preparation of 20 cm Ã— 20 cm graphene modified carbon felt for high performance vanadium redox flow battery. Nano Research, 2021, 14, 3538-3544.	5.8	43
15	Hierarchical Architectures Based on Ru Nanoparticles/Oxygenâ€Richâ€Carbon Nanotubes for Efficient Hydrogen Evolution. Chemistry - A European Journal, 2021, 27, 11150-11157.	1.7	13
16	Field-driven modulating of In-Sn-O synaptic transistors with a precisely controlled weight update. Applied Materials Today, 2021, 23, 101024.	2.3	5
17	Benign Synthesis and Modification of a Znâ€“Azolate Metalâ€“Organic Framework for Enhanced Ammonia Uptake and Catalytic Hydrolysis of an Organophosphorus Chemical. , 2021, 3, 1363-1368.		13
18	A neutral polysulfide/ferricyanide redox flow battery. IScience, 2021, 24, 103157.	1.9	26

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19	Dual-liquid-gated electrochemical transistor and its neuromorphic behaviors. Nano Energy, 2021, 87, 106116.	8.2	21
20	Eco-friendly and recyclable all cellulose triboelectric nanogenerator and self-powered interactive interface. Nano Energy, 2021, 89, 106354.	8.2	84
21	Morphology control of SnO2 layer by solvent engineering for efficient perovskite solar cells. Solar Energy, 2021, 214, 280-287.	2.9	29
22	Triboelectric potential tuned dual-gate IGZO transistor for versatile sensory device. Nano Energy, 2021, 90, 106617.	8.2	25
23	A universal and arbitrary tactile interactive system based on self-powered optical communication. Nano Energy, 2020, 69, 104419.	8.2	67
24	Benign Integration of a Zn-Azolate Metalâ€“Organic Framework onto Textile Fiber for Ammonia Capture. ACS Applied Materials & Interfaces, 2020, 12, 47747-47753.	4.0	37
25	Atomic threshold-switching enabled MoS2 transistors towards ultralow-power electronics. Nature Communications, 2020, 11, 6207.	5.8	52
26	Î²-Phase-Preferential blow-spun fabrics for wearable triboelectric nanogenerators and textile interactive interface. Nano Energy, 2020, 77, 105262.	8.2	55
27	Enhanced Photocatalysis by Synergistic Piezotronic Effect and Excitonâ€“Plasmon Interaction Based on (Agâ€Ag₂S)/BaTiO₃ Heterostructures. Advanced Functional Materials, 2020, 30, 2005716.	7.8	65
28	Highly Stable Vanadium Redoxâ€Flow Battery Assisted by Redoxâ€Mediated Catalysis. Small, 2020, 16, e2003321.	5.2	65
29	Versatile Triboiontronic Transistor via Proton Conductor. ACS Nano, 2020, 14, 8668-8677.	7.3	49
30	A Costâ€effective Nafion Composite Membrane as an Effective Vanadiumâ€Ion Barrier for Vanadium Redox Flow Batteries. Chemistry - an Asian Journal, 2020, 15, 2357-2363.	1.7	55
31	Piezo/Tribotronics Toward Smart Flexible Sensors. Advanced Intelligent Systems, 2020, 2, 1900175.	3.3	33
32	Mechanoplastic Tribotronic Floatingâ€Gate Neuromorphic Transistor. Advanced Functional Materials, 2020, 30, 2002506.	7.8	103
33	Ion Gel Capacitively Coupled Tribotronic Gating for Multiparameter Distance Sensing. ACS Nano, 2020, 14, 3461-3468.	7.3	43
34	Stretchable Energyâ€Harvesting Tactile Interactive Interface with Liquidâ€Metalâ€Nanoparticleâ€Based Electrodes. Advanced Functional Materials, 2020, 30, 1909652.	7.8	97
35	Fingerprintâ€Inspired Conducting Hierarchical Wrinkles for Energyâ€Harvesting Eâ€Skin. Advanced Functional Materials, 2019, 29, 1903580.	7.8	79
36	Graphene Synapses: Piezotronic Graphene Artificial Sensory Synapse (Adv. Funct. Mater. 41/2019). Advanced Functional Materials, 2019, 29, 1970286.	7.8	16

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37	Piezotronic Effect Enhanced Plasmonic Photocatalysis by AuNPs/BaTiO₃ Heterostructures. Advanced Functional Materials, 2019, 29, 1808737.	7.8	157
38	Textile carbon network with enhanced areal capacitance prepared by chemical activation of cotton cloth. Journal of Colloid and Interface Science, 2019, 553, 705-712.	5.0	51
39	Enhanced photocatalytic H2 evolution by plasmonic and piezotronic effects based on periodic Al/BaTiO3 heterostructures. Nano Energy, 2019, 62, 513-520.	8.2	127
40	Piezotronic Graphene Artificial Sensory Synapse. Advanced Functional Materials, 2019, 29, 1900959.	7.8	147
41	Coupled Ionâ€Gel Channelâ€Width Gating and Piezotronic Interface Gating in ZnO Nanowire Devices. Advanced Functional Materials, 2019, 29, 1807837.	7.8	27
42	Hybrid piezo/triboelectric nanogenerator for highly efficient and stable rotation energy harvesting. Nano Energy, 2019, 57, 440-449.	8.2	164
43	Triboiontronic Transistor of MoS₂. Advanced Materials, 2019, 31, e1806905.	11.1	93
44	Static and Dynamic Piezopotential Modulation in Piezo-Electret Gated MoS₂ Field-Effect Transistor. ACS Nano, 2019, 13, 582-590.	7.3	38
45	Tunable Tribotronic Dualâ€Gate Logic Devices Based on 2DÂMoS₂ and Black Phosphorus. Advanced Materials, 2018, 30, e1705088.	11.1	105
46	Transparent and Self-Powered Multistage Sensation Matrix for Mechanosensation Application. ACS Nano, 2018, 12, 254-262.	7.3	81
47	Mechanosensation-Active Matrix Based on Direct-Contact Tribotronic Planar Graphene Transistor Array. ACS Nano, 2018, 12, 9381-9389.	7.3	64
48	Hybrid Piezo/Triboelectricâ€Driven Selfâ€Charging Electrochromic Supercapacitor Power Package. Advanced Energy Materials, 2018, 8, 1800069.	10.2	147
49	Piezotronic graphene barristor: Efficient and interactive modulation of Schottky barrier. Nano Energy, 2018, 50, 598-605.	8.2	31
50	Light-transformable and -healable triboelectric nanogenerators. Nano Energy, 2017, 38, 412-418.	8.2	24
51	Crack-Enhanced Microfluidic Stretchable E-Skin Sensor. ACS Applied Materials & Interfaces, 2017, 9, 44678-44686.	4.0	54
52	Piezopotential-Programmed Multilevel Nonvolatile Memory As Triggered by Mechanical Stimuli. ACS Nano, 2016, 10, 11037-11043.	7.3	37
53	Graphene Transistors Gated by Salted Proton Conductor. Advanced Electronic Materials, 2016, 2, 1600122.	2.6	12
54	Wafer-Scale Microwire Transistor Array Fabricated via Evaporative Assembly. ACS Applied Materials & Interfaces, 2016, 8, 15543-15550.	4.0	7

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55	Stretchable and Multimodal All Graphene Electronic Skin. Advanced Materials, 2016, 28, 2601-2608.	11.1	493
56	Metallic Grid Electrode Fabricated via Flow Coating for High-Performance Flexible Piezoelectric Nanogenerators. Journal of Physical Chemistry C, 2015, 119, 7802-7808.	1.5	28
57	Positively-charged reduced graphene oxide as an adhesion promoter for preparing a highly-stable silver nanowire film. Nanoscale, 2015, 7, 6798-6804.	2.8	56
58	Active Matrix Electronic Skin Strain Sensor Based on Piezopotentialâ€Powered Graphene Transistors. Advanced Materials, 2015, 27, 3411-3417.	11.1	287
59	On-Demand Doping of Graphene by Stamping with a Chemically Functionalized Rubber Lens. ACS Nano, 2015, 9, 4354-4361.	7.3	16
60	Transparent, Lowâ€Power Pressure Sensor Matrix Based on Coplanarâ€Gate Graphene Transistors. Advanced Materials, 2014, 26, 4735-4740.	11.1	185
61	External pressure responsive device based on tunable organic inverter using soft contact lamination. Organic Electronics, 2013, 14, 2401-2405.	1.4	8
62	A tunable organic inverter based on groove patterned pentacene thin film transistors using soft-contact lamination. Organic Electronics, 2012, 13, 384-387.	1.4	11
63	Pressure dependent current-controllable devices based on organic thin film transistors by soft-contact lamination. Organic Electronics, 2010, 11, 964-968.	1.4	15
64	Characteristics of a pentacene thin film transistor with periodic groove patterned poly(methylmethacrylate) dielectrics. Applied Physics Letters, 2010, 96, .	1.5	16