# Qijun Sun

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8201007/publications.pdf

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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 | Stretchable and Multimodal All Graphene Electronic Skin. Advanced Materials, 2016, 28, 2601-2608. | 11.1 | 493 |
| 2 | Active Matrix Electronic Skin Strain Sensor Based on Piezopotentialâ€Powered Graphene Transistors. Advanced Materials, 2015, 27, 3411-3417. | 11.1 | 287 |
| 3 | Transparent, Lowâ€Power Pressure Sensor Matrix Based on Coplanarâ€Gate Graphene Transistors. Advanced Materials, 2014, 26, 4735-4740. | 11.1 | 185 |
| 4 | Bioinspired mechano-photonic artificial synapse based on graphene/MoS <sub>2</sub> heterostructure. Science Advances, 2021, 7, . | 4.7 | 184 |
| 5 | Hybrid piezo/triboelectric nanogenerator for highly efficient and stable rotation energy harvesting. Nano Energy, 2019, 57, 440-449. | 8.2 | 164 |
| 6 | Piezoelectric nanocomposites for sonodynamic bacterial elimination and wound healing. Nano Today, 2021, 37, 101104. | 6.2 | 164 |
| 7 | Piezoelectric Nanogenerators Derived Selfâ€Powered Sensors for Multifunctional Applications and Artificial Intelligence. Advanced Functional Materials, 2021, 31, 2102983. | 7.8 | 163 |
| 8 | Piezotronic Effect Enhanced Plasmonic Photocatalysis by AuNPs/BaTiO<sub>3</sub> Heterostructures. Advanced Functional Materials, 2019, 29, 1808737. | 7.8 | 157 |
| 9 | Hybrid Piezo/Triboelectricâ€Driven Selfâ€Charging Electrochromic Supercapacitor Power Package. Advanced Energy Materials, 2018, 8, 1800069. | 10.2 | 147 |
| 10 | Piezotronic Graphene Artificial Sensory Synapse. Advanced Functional Materials, 2019, 29, 1900959. | 7.8 | 147 |
| 11 | Enhanced photocatalytic H2 evolution by plasmonic and piezotronic effects based on periodic Al/BaTiO3 heterostructures. Nano Energy, 2019, 62, 513-520. | 8.2 | 127 |
| 12 | Contact-electrification-activated artificial afferents at femtojoule energy. Nature Communications, 2021, 12, 1581. | 5.8 | 117 |
| 13 | Multifunctional Coaxial Energy Fiber toward Energy Harvesting, Storage, and Utilization. ACS Nano, 2021, 15, 1597-1607. | 7.3 | 107 |
| 14 | Tunable Tribotronic Dualâ€Gate Logic Devices Based on 2DÂMoS<sub>2</sub> and Black Phosphorus. Advanced Materials, 2018, 30, e1705088. | 11.1 | 105 |
| 15 | Mechanoplastic Tribotronic Floatingâ€Gate Neuromorphic Transistor. Advanced Functional Materials, 2020, 30, 2002506. | 7.8 | 103 |
| 16 | Stretchable Energyâ€Harvesting Tactile Interactive Interface with Liquidâ€Metalâ€Nanoparticleâ€Based Electrodes. Advanced Functional Materials, 2020, 30, 1909652. | 7.8 | 97 |
| 17 | Triboiontronic Transistor of MoS<sub>2</sub>. Advanced Materials, 2019, 31, e1806905. | 11.1 | 93 |
| 18 | Eco-friendly and recyclable all cellulose triboelectric nanogenerator and self-powered interactive interface. Nano Energy, 2021, 89, 106354. | 8.2 | 84 |

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|---|---|---|---|
| 19 | Transparent and Self-Powered Multistage Sensation Matrix for Mechanosensation Application. ACS Nano, 2018, 12, 254-262. | 7.3 | 81 |
| 20 | Fingerprintâ€Inspired Conducting Hierarchical Wrinkles for Energyâ€Harvesting Eâ€Skin. Advanced Functional Materials, 2019, 29, 1903580. | 7.8 | 79 |
| 21 | A universal and arbitrary tactile interactive system based on self-powered optical communication. Nano Energy, 2020, 69, 104419. | 8.2 | 67 |
| 22 | Enhanced Photocatalysis by Synergistic Piezotronic Effect and Excitonâ€“Plasmon Interaction Based on (Agâ€Ag<sub>2</sub>S)/BaTiO<sub>3</sub> Heterostructures. Advanced Functional Materials, 2020, 30, 2005716. | 7.8 | 65 |
| 23 | Highly Stable Vanadium Redoxâ€Flow Battery Assisted by Redoxâ€Mediated Catalysis. Small, 2020, 16, e2003321. | 5.2 | 65 |
| 24 | Mechanosensation-Active Matrix Based on Direct-Contact Tribotronic Planar Graphene Transistor Array. ACS Nano, 2018, 12, 9381-9389. | 7.3 | 64 |
| 25 | 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 |
| 26 | Î²-Phase-Preferential blow-spun fabrics for wearable triboelectric nanogenerators and textile interactive interface. Nano Energy, 2020, 77, 105262. | 8.2 | 55 |
| 27 | 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 |
| 28 | 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 |
| 29 | Crack-Enhanced Microfluidic Stretchable E-Skin Sensor. ACS Applied Materials & Interfaces, 2017, 9, 44678-44686. | 4.0 | 54 |
| 30 | Atomic threshold-switching enabled MoS2 transistors towards ultralow-power electronics. Nature Communications, 2020, 11, 6207. | 5.8 | 52 |
| 31 | 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 |
| 32 | Versatile Triboiontronic Transistor via Proton Conductor. ACS Nano, 2020, 14, 8668-8677. | 7.3 | 49 |
| 33 | Ion Gel Capacitively Coupled Tribotronic Gating for Multiparameter Distance Sensing. ACS Nano, 2020, 14, 3461-3468. | 7.3 | 43 |
| 34 | 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 |
| 35 | Static and Dynamic Piezopotential Modulation in Piezo-Electret Gated MoS<sub>2</sub> Field-Effect Transistor. ACS Nano, 2019, 13, 582-590. | 7.3 | 38 |
| 36 | Piezopotential-Programmed Multilevel Nonvolatile Memory As Triggered by Mechanical Stimuli. ACS Nano, 2016, 10, 11037-11043. | 7.3 | 37 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | 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 |
| 38 | Piezo/Tribotronics Toward Smart Flexible Sensors. Advanced Intelligent Systems, 2020, 2, 1900175. | 3.3 | 33 |
| 39 | Piezotronic graphene barristor: Efficient and interactive modulation of Schottky barrier. Nano Energy, 2018, 50, 598-605. | 8.2 | 31 |
| 40 | Stretchable multifunctional self-powered systems with Cu-EGaIn liquid metal electrodes. Nano Energy, 2022, 101, 107582. | 8.2 | 30 |
| 41 | Morphology control of SnO2 layer by solvent engineering for efficient perovskite solar cells. Solar Energy, 2021, 214, 280-287. | 2.9 | 29 |
| 42 | 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 |
| 43 | Coupled Ionâ€Gel Channelâ€Width Gating and Piezotronic Interface Gating in ZnO Nanowire Devices. Advanced Functional Materials, 2019, 29, 1807837. | 7.8 | 27 |
| 44 | Paper-based triboelectric nanogenerators and their applications: a review. Beilstein Journal of Nanotechnology, 2021, 12, 151-171. | 1.5 | 27 |
| 45 | A neutral polysulfide/ferricyanide redox flow battery. IScience, 2021, 24, 103157. | 1.9 | 26 |
| 46 | Triboelectric potential tuned dual-gate IGZO transistor for versatile sensory device. Nano Energy, 2021, 90, 106617. | 8.2 | 25 |
| 47 | Light-transformable and -healable triboelectric nanogenerators. Nano Energy, 2017, 38, 412-418. | 8.2 | 24 |
| 48 | Fiber-Shaped Triboiontronic Electrochemical Transistor. Research, 2021, 2021, 9840918. | 2.8 | 22 |
| 49 | Multibit tribotronic nonvolatile memory based on van der Waals heterostructures. Nano Energy, 2021, 83, 105785. | 8.2 | 21 |
| 50 | Dual-liquid-gated electrochemical transistor and its neuromorphic behaviors. Nano Energy, 2021, 87, 106116. | 8.2 | 21 |
| 51 | Characteristics of a pentacene thin film transistor with periodic groove patterned poly(methylmethacrylate) dielectrics. Applied Physics Letters, 2010, 96, . | 1.5 | 16 |
| 52 | On-Demand Doping of Graphene by Stamping with a Chemically Functionalized Rubber Lens. ACS Nano, 2015, 9, 4354-4361. | 7.3 | 16 |
| 53 | Graphene Synapses: Piezotronic Graphene Artificial Sensory Synapse (Adv. Funct. Mater. 41/2019). Advanced Functional Materials, 2019, 29, 1970286. | 7.8 | 16 |
| 54 | Pressure dependent current-controllable devices based on organic thin film transistors by soft-contact lamination. Organic Electronics, 2010, 11, 964-968. | 1.4 | 15 |

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|---|---|---|---|
| 55 | 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 |
| 56 | 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 |
| 57 | Graphene Transistors Gated by Salted Proton Conductor. Advanced Electronic Materials, 2016, 2, 1600122. | 2.6 | 12 |
| 58 | 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 |
| 59 | Kirigami interactive triboelectric mechanologic. Nano Energy, 2022, 99, 107345. | 8.2 | 11 |
| 60 | External pressure responsive device based on tunable organic inverter using soft contact lamination. Organic Electronics, 2013, 14, 2401-2405. | 1.4 | 8 |
| 61 | Wafer-Scale Microwire Transistor Array Fabricated via Evaporative Assembly. ACS Applied Materials & Interfaces, 2016, 8, 15543-15550. | 4.0 | 7 |
| 62 | Field-driven modulating of In-Sn-O synaptic transistors with a precisely controlled weight update. Applied Materials Today, 2021, 23, 101024. | 2.3 | 5 |
| 63 | Bandgap Modulation in BP Field Effect Transistor and Its Applications. Advanced Electronic Materials, 2021, 7, 2100228. | 2.6 | 2 |
| 64 | On-Chip 3D Zn/NiOOH Helical Electrodes for High-Energy-Density Microbattery. ACS Applied Energy Materials, 2022, 5, 6282-6290. | 2.5 | 2 |