

Shoushan Fan

List of Publications by Year in descending order

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174
papers

11,013
citations

38660

50
h-index

30848

102
g-index

180
all docs

180
docs citations

180
times ranked

15525
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Spinning continuous carbon nanotube yarns. <i>Nature</i> , 2002, 419, 801-801. | 13.7 | 1,023 |
| 2 | Experimental observation of topological Fermi arcs in type-II Weyl semimetal MoTe ₂ . <i>Nature Physics</i> , 2016, 12, 1105-1110. | 6.5 | 663 |
| 3 | Grain-Boundary-Dependent CO ₂ Electroreduction Activity. <i>Journal of the American Chemical Society</i> , 2015, 137, 4606-4609. | 6.6 | 583 |
| 4 | Flexible, Stretchable, Transparent Carbon Nanotube Thin Film Loudspeakers. <i>Nano Letters</i> , 2008, 8, 4539-4545. | 4.5 | 472 |
| 5 | Superaligned Carbon Nanotube Arrays, Films, and Yarns: A Road to Applications. <i>Advanced Materials</i> , 2011, 23, 1154-1161. | 11.1 | 391 |
| 6 | A Direct Grain-Boundary-Activity Correlation for CO Electroreduction on Cu Nanoparticles. <i>ACS Central Science</i> , 2016, 2, 169-174. | 5.3 | 362 |
| 7 | Efficient solar-driven water splitting by nanocone BiVO ₄ -perovskite tandem cells. <i>Science Advances</i> , 2016, 2, e1501764. | 4.7 | 351 |
| 8 | Lorentz-violating type-II Dirac fermions in transition metal dichalcogenide PtTe ₂ . <i>Nature Communications</i> , 2017, 8, 257. | 5.8 | 337 |
| 9 | Ultrathin MnO ₂ /Graphene Oxide/Carbon Nanotube Interlayer as Efficient Polysulfide Trapping Shield for High-Performance Li-S Batteries. <i>Advanced Functional Materials</i> , 2017, 27, 1606663. | 7.8 | 306 |
| 10 | Binder-Free LiCoO ₂ /Carbon Nanotube Cathodes for High-Performance Lithium Ion Batteries. <i>Advanced Materials</i> , 2012, 24, 2294-2298. | 11.1 | 271 |
| 11 | Sulfur Nanocrystals Confined in Carbon Nanotube Network As a Binder-Free Electrode for High-Performance Lithium Sulfur Batteries. <i>Nano Letters</i> , 2014, 14, 4044-4049. | 4.5 | 262 |
| 12 | Superaligned Carbon Nanotube Films as Current Collectors for Lightweight and Flexible Lithium Ion Batteries. <i>Advanced Functional Materials</i> , 2013, 23, 846-853. | 7.8 | 258 |
| 13 | Fast Adaptive Thermal Camouflage Based on Flexible VO ₂ /Graphene/CNT Thin Films. <i>Nano Letters</i> , 2015, 15, 8365-8370. | 4.5 | 253 |
| 14 | Scratch-Resistant, Highly Conductive, and High-Strength Carbon Nanotube-Based Composite Yarns. <i>ACS Nano</i> , 2010, 4, 5827-5834. | 7.3 | 243 |
| 15 | Sulfur Embedded in a Mesoporous Carbon Nanotube Network as a Binder-Free Electrode for High-Performance Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2016, 10, 1300-1308. | 7.3 | 196 |
| 16 | Reversibility of Noble Metal-Catalyzed Aprotic Li-O ₂ Batteries. <i>Nano Letters</i> , 2015, 15, 8084-8090. | 4.5 | 165 |
| 17 | Cross-Stacked Superaligned Carbon Nanotube Films for Transparent and Stretchable Conductors. <i>Advanced Functional Materials</i> , 2011, 21, 2721-2728. | 7.8 | 156 |
| 18 | Multiresponsive Bidirectional Bending Actuators Fabricated by a Pencil-Paper Method. <i>Advanced Functional Materials</i> , 2016, 26, 7244-7253. | 7.8 | 145 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Multifunctional Interlayer Based on Molybdenum Diphosphide Catalyst and Carbon Nanotube Film for Lithium-Sulfur Batteries. <i>Small</i> , 2018, 14, 1702853. | 5.2 | 142 |
| 20 | Large-Deformation Curling Actuators Based on Carbon Nanotube Composite: Advanced-Structure Design and Biomimetic Application. <i>ACS Nano</i> , 2015, 9, 12189-12196. | 7.3 | 126 |
| 21 | In situ prepared nano-crystalline TiO ₂ -poly(methyl methacrylate) hybrid enhanced composite polymer electrolyte for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5955. | 5.2 | 125 |
| 22 | Super-aligned carbon nanotube/graphene hybrid materials as a framework for sulfur cathodes in high performance lithium sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 5305-5312. | 5.2 | 112 |
| 23 | Thermionic emission and work function of multiwalled carbon nanotube yarns. <i>Physical Review B</i> , 2006, 73, . | 1.1 | 98 |
| 24 | Highly Nitridated Graphene-Li ₂ S Cathodes with Stable Modulated Cycles. <i>Advanced Energy Materials</i> , 2015, 5, 1501369. | 10.2 | 97 |
| 25 | Cross-stacked superaligned carbon nanotube electrodes for efficient hole conductor-free perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5569-5577. | 5.2 | 92 |
| 26 | In Situ TEM observation of the gasification and growth of carbon nanotubes using iron catalysts. <i>Nano Research</i> , 2011, 4, 767-779. | 5.8 | 91 |
| 27 | Progress and challenges of flexible lithium ion batteries. <i>Journal of Power Sources</i> , 2020, 454, 227932. | 4.0 | 89 |
| 28 | Polarized incandescent light emission from carbon nanotubes. <i>Applied Physics Letters</i> , 2003, 82, 1763-1765. | 1.5 | 87 |
| 29 | Fabrication and properties of aligned multiwalled carbon nanotube-reinforced epoxy composites. <i>Journal of Materials Research</i> , 2008, 23, 2975-2983. | 1.2 | 86 |
| 30 | Graphene-Based Actuator with Integrated Sensing Function. <i>Advanced Functional Materials</i> , 2019, 29, 1806057. | 7.8 | 85 |
| 31 | Development of an ultra-thin film comprised of a graphene membrane and carbon nanotube vein support. <i>Nature Communications</i> , 2013, 4, 2920. | 5.8 | 71 |
| 32 | Transparent actuators and robots based on single-layer superaligned carbon nanotube sheet and polymer composites. <i>Nanoscale</i> , 2016, 8, 6877-6883. | 2.8 | 71 |
| 33 | Self-assembly of 3D Carbon Nanotube Sponges: A Simple and Controllable Way to Build Macroscopic and Ultralight Porous Architectures. <i>Advanced Materials</i> , 2017, 29, 1603549. | 11.1 | 69 |
| 34 | Mn ₃ O ₄ nanoparticles anchored on continuous carbon nanotube network as superior anodes for lithium ion batteries. <i>Journal of Power Sources</i> , 2014, 249, 463-469. | 4.0 | 68 |
| 35 | A photocapacitor based on organometal halide perovskite and PANI/CNT composites integrated using a CNT bridge. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23078-23084. | 5.2 | 68 |
| 36 | Thermoacoustic Chips with Carbon Nanotube Thin Yarn Arrays. <i>Nano Letters</i> , 2013, 13, 4795-4801. | 4.5 | 67 |

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|----|---|------|-----------|
| 37 | Well-Constructed CNT Mesh/PANI Nanoporous Electrode and Its Thickness Effect on the Supercapacitor Properties. <i>Journal of Physical Chemistry C</i> , 2012, 116, 26185-26189. | 1.5 | 66 |
| 38 | Three-Dimensional Flexible Complementary Metal-Oxide Semiconductor Logic Circuits Based On Two-Layer Stacks of Single-Walled Carbon Nanotube Networks. <i>ACS Nano</i> , 2016, 10, 2193-2202. | 7.3 | 66 |
| 39 | Amorphous MoS ₂ Photodetector with Ultra-Broadband Response. <i>ACS Applied Electronic Materials</i> , 2019, 1, 1314-1321. | 2.0 | 65 |
| 40 | Binder-free polymer encapsulated sulfur-carbon nanotube composite cathodes for high performance lithium batteries. <i>Carbon</i> , 2016, 96, 1053-1059. | 5.4 | 64 |
| 41 | Auxetic materials with large negative Poisson's ratios based on highly oriented carbon nanotube structures. <i>Applied Physics Letters</i> , 2009, 94, . | 1.5 | 62 |
| 42 | Ultrafast self-heating synthesis of robust heterogeneous nanocarbides for high current density hydrogen evolution reaction. <i>Nature Communications</i> , 2022, 13, . | 5.8 | 62 |
| 43 | High frequency response of carbon nanotube thin film speaker in gases. <i>Journal of Applied Physics</i> , 2011, 110, . | 1.1 | 61 |
| 44 | Growing highly pure semiconducting carbon nanotubes by electrospinning the helicity. <i>Nature Catalysis</i> , 2018, 1, 326-331. | 16.1 | 61 |
| 45 | High quality light guide plates that can control the illumination angle based on microprism structures. <i>Applied Physics Letters</i> , 2004, 85, 6016-6018. | 1.5 | 59 |
| 46 | A lightly Fe-doped (NiS ₂ /MoS ₂)/carbon nanotube hybrid electrocatalyst film with laser-drilled micropores for stabilized overall water splitting and pH-universal hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17527-17536. | 5.2 | 59 |
| 47 | Ultra-stretchable conductors based on buckled super-aligned carbon nanotube films. <i>Nanoscale</i> , 2015, 7, 10178-10185. | 2.8 | 55 |
| 48 | Applications of carbon nanotubes in high performance lithium ion batteries. <i>Frontiers of Physics</i> , 2014, 9, 351-369. | 2.4 | 54 |
| 49 | Fano resonance boosted cascaded optical field enhancement in a plasmonic nanoparticle-in-cavity nanoantenna array and its SERS application. <i>Light: Science and Applications</i> , 2015, 4, e296-e296. | 7.7 | 53 |
| 50 | Linearly Polarized Light Emission from Quantum Dots with Plasmonic Nanoantenna Arrays. <i>Nano Letters</i> , 2015, 15, 2951-2957. | 4.5 | 51 |
| 51 | Enhanced rate capabilities of Co ₃ O ₄ /carbon nanotube anodes for lithium ion battery applications. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11121. | 5.2 | 50 |
| 52 | Heating graphene to incandescence and the measurement of its work function by the thermionic emission method. <i>Nano Research</i> , 2014, 7, 553-560. | 5.8 | 50 |
| 53 | Phase-transition modulated, high-performance dual-mode photodetectors based on WSe ₂ /VO ₂ heterojunctions. <i>Applied Physics Reviews</i> , 2019, 6, 041407. | 5.5 | 50 |
| 54 | Mesoporous Li ₄ Ti ₅ O ₁₂ nanoclusters anchored on super-aligned carbon nanotubes as high performance electrodes for lithium ion batteries. <i>Nanoscale</i> , 2016, 8, 617-625. | 2.8 | 46 |

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|----|---|------|-----------|
| 55 | Ultrastretchable carbon nanotube composite electrodes for flexible lithium-ion batteries. <i>Nanoscale</i> , 2018, 10, 19972-19978. | 2.8 | 46 |
| 56 | A Polymer Supercapacitor Capable of Self-Charging under Light Illumination. <i>Journal of Physical Chemistry C</i> , 2015, 119, 8488-8491. | 1.5 | 42 |
| 57 | Monolayer MoS ₂ Synaptic Transistors for High-Temperature Neuromorphic Applications. <i>Nano Letters</i> , 2021, 21, 10400-10408. | 4.5 | 41 |
| 58 | Entrapping electrode materials within ultrathin carbon nanotube network for flexible thin film lithium ion batteries. <i>RSC Advances</i> , 2014, 4, 20010-20016. | 1.7 | 39 |
| 59 | Load Characteristics of a Suspended Carbon Nanotube Film Heater and the Fabrication of a Fast-Response Thermochromic Display Prototype. <i>ACS Nano</i> , 2015, 9, 3753-3759. | 7.3 | 39 |
| 60 | Boosting the Oxidative Potential of Polyethylene Glycol-Based Polymer Electrolyte to 4.36 V by Spatially Restricting Hydroxyl Groups for High-Voltage Flexible Lithium-Ion Battery Applications. <i>Advanced Science</i> , 2021, 8, e2100736. | 5.6 | 39 |
| 61 | Silicon nanowires grown on iron-patterned silicon substrates. <i>Applied Physics Letters</i> , 2000, 76, 3020-3021. | 1.5 | 38 |
| 62 | High-strength composite yarns derived from oxygen plasma modified super-aligned carbon nanotube arrays. <i>Nano Research</i> , 2013, 6, 208-215. | 5.8 | 38 |
| 63 | Organic polymer material with a multi-electron process redox reaction: towards ultra-high reversible lithium storage capacity. <i>RSC Advances</i> , 2013, 3, 3227. | 1.7 | 35 |
| 64 | Low-energy transmission electron diffraction and imaging of large-area graphene. <i>Science Advances</i> , 2017, 3, e1603231. | 4.7 | 35 |
| 65 | Macroscopic Carbon Nanotube Structures for Lithium Batteries. <i>Small</i> , 2020, 16, e1902719. | 5.2 | 35 |
| 66 | Periodically striped films produced from super-aligned carbon nanotube arrays. <i>Nanotechnology</i> , 2009, 20, 335705. | 1.3 | 34 |
| 67 | True-color real-time imaging and spectroscopy of carbon nanotubes on substrates using enhanced Rayleigh scattering. <i>Nano Research</i> , 2015, 8, 2721-2732. | 5.8 | 34 |
| 68 | Effect of an Auxiliary Plate on Passive Heat Dissipation of Carbon Nanotube-Based Materials. <i>Nano Letters</i> , 2018, 18, 1770-1776. | 4.5 | 34 |
| 69 | Free-Standing, Binder-Free Titania/Super-Aligned Carbon Nanotube Anodes for Flexible and Fast-Charging Li-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 3426-3433. | 3.2 | 34 |
| 70 | Advances of CNT-based systems in thermal management. <i>Nano Research</i> , 2021, 14, 2471-2490. | 5.8 | 34 |
| 71 | Thermal Analysis Study of the Growth Kinetics of Carbon Nanotubes and Epitaxial Graphene Layers on Them. <i>Journal of Physical Chemistry C</i> , 2009, 113, 9623-9631. | 1.5 | 32 |
| 72 | SWCNT@MoS ₂ Vertical Point Heterostructures. <i>Advanced Materials</i> , 2017, 29, 1604469. | 11.1 | 32 |

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|----|---|-----|-----------|
| 73 | Hard Carbon Nanotube Sponges for Highly Efficient Cooling <i>via</i> Moisture Absorption–Desorption Process. <i>ACS Nano</i> , 2020, 14, 14091-14099. | 7.3 | 31 |
| 74 | Unraveling Shuttle Effect and Suppression Strategy in Lithium/Sulfur Cells by In Situ/Operando X-ray Absorption Spectroscopic Characterization. <i>Energy and Environmental Materials</i> , 2021, 4, 222-228. | 7.3 | 31 |
| 75 | Sharp-Tip Silver Nanowires Mounted on Cantilevers for High-Aspect-Ratio High-Resolution Imaging. <i>Nano Letters</i> , 2016, 16, 6896-6902. | 4.5 | 30 |
| 76 | Observation of Charge Generation and Transfer during CVD Growth of Carbon Nanotubes. <i>Nano Letters</i> , 2016, 16, 4102-4109. | 4.5 | 30 |
| 77 | Broadband asymmetric transmission of optical waves from spiral plasmonic metamaterials. <i>Applied Physics Letters</i> , 2014, 104, . | 1.5 | 29 |
| 78 | Ultrasensitive, Low-Voltage Operational, and Asymmetric Ionic Sensing Hydrogel for Multipurpose Applications. <i>Advanced Functional Materials</i> , 2020, 30, 1909616. | 7.8 | 29 |
| 79 | Barium-functionalized multiwalled carbon nanotube yarns as low-work-function thermionic cathodes. <i>Applied Physics Letters</i> , 2008, 92, . | 1.5 | 28 |
| 80 | High areal capacity flexible sulfur cathode based on multi-functionalized super-aligned carbon nanotubes. <i>Nano Research</i> , 2019, 12, 1105-1113. | 5.8 | 28 |
| 81 | Sub-10 nm Monolayer MoS ₂ Transistors Using Single-Walled Carbon Nanotubes as an Evaporating Mask. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 11612-11617. | 4.0 | 27 |
| 82 | Highly catalytic cross-stacked superaligned carbon nanotube sheets for iodine-free dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 22756. | 6.7 | 26 |
| 83 | Fabrication of air-stable n-type carbon nanotube thin-film transistors on flexible substrates using bilayer dielectrics. <i>Nanoscale</i> , 2015, 7, 17693-17701. | 2.8 | 26 |
| 84 | Hydrocapacitor for Harvesting and Storing Energy from Water Movement. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 35273-35280. | 4.0 | 26 |
| 85 | Tailorable Capacitive Tactile Sensor Based on Stretchable and Dissolvable Porous Silver Nanowire/Polyvinyl Alcohol Nanocomposite Hydrogel for Wearable Human Motion Detection. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100998. | 1.9 | 26 |
| 86 | Highly Sensitive, Uniform, and Reproducible Surface-Enhanced Raman Spectroscopy Substrate with Nanometer-Scale Quasi-periodic Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 32369-32376. | 4.0 | 25 |
| 87 | Flexible and free-standing hetero-electrocatalyst of high-valence-cation doped MoS ₂ /MoO ₂ /CNT foam with synergistically enhanced hydrogen evolution reaction catalytic activity. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14944-14954. | 5.2 | 25 |
| 88 | Hybrid energy storage devices combining carbon-nanotube/polyaniline supercapacitor with lead-acid battery assembled through a directly-inserted method. <i>RSC Advances</i> , 2014, 4, 26378-26382. | 1.7 | 24 |
| 89 | Interfacial thermal resistance and thermal rectification in carbon nanotube film-copper systems. <i>Nanoscale</i> , 2017, 9, 3133-3139. | 2.8 | 24 |
| 90 | Watching Dynamic Self-Assembly of Web Buckles in Strained MoS ₂ Thin Films. <i>ACS Nano</i> , 2019, 13, 3106-3116. | 7.3 | 24 |

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|-----|---|------|-----------|
| 91 | Epitaxial Growth of Aligned and Continuous Carbon Nanofibers from Carbon Nanotubes. ACS Nano, 2017, 11, 1257-1263. | 7.3 | 23 |
| 92 | A super compact self-powered device based on paper-like supercapacitors. Journal of Materials Chemistry A, 2019, 7, 3642-3647. | 5.2 | 22 |
| 93 | Carbon Nanotube-Confined Vertical Heterostructures with Asymmetric Contacts. Advanced Materials, 2017, 29, 1702942. | 11.1 | 21 |
| 94 | Gravity-Induced Self-Charging in Carbon Nanotube/Polymer Supercapacitors. Journal of Physical Chemistry C, 2019, 123, 5249-5254. | 1.5 | 21 |
| 95 | Direct laser patterning of two-dimensional lateral transition metal disulfide-oxide-disulfide heterostructures for ultrasensitive sensors. Nano Research, 2020, 13, 2035-2043. | 5.8 | 21 |
| 96 | A low-vacuum ionization gauge with HfC-modified carbon nanotube field emitters. Applied Physics Letters, 2008, 92, 153105. | 1.5 | 20 |
| 97 | Influence of Asymmetric Contact Form on Contact Resistance and Schottky Barrier, and Corresponding Applications of Diode. ACS Applied Materials & Interfaces, 2017, 9, 18945-18955. | 4.0 | 20 |
| 98 | Electrical control of spatial resolution in mixed-dimensional heterostructured photodetectors. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6586-6593. | 3.3 | 20 |
| 99 | Modulating lateral strain in GaN-based epitaxial layers by patterning sapphire substrates with aligned carbon nanotube films. Nano Research, 2012, 5, 646-653. | 5.8 | 18 |
| 100 | Photodetection and Photoswitch Based On Polarized Optical Response of Macroscopically Aligned Carbon Nanotubes. Nano Letters, 2016, 16, 6378-6382. | 4.5 | 18 |
| 101 | Mixed-Dimensional Vertical Point p-i-n Junctions. ACS Nano, 2020, 14, 3181-3189. | 7.3 | 18 |
| 102 | High quality GaN epilayers grown on carbon nanotube patterned sapphire substrate by metal-organic vapor phase epitaxy. CrystEngComm, 2012, 14, 4728. | 1.3 | 17 |
| 103 | Flash-evaporation printing methodology for perovskite thin films. NPG Asia Materials, 2017, 9, e395-e395. | 3.8 | 17 |
| 104 | Continuous, Ultra-lightweight, and Multipurpose Super-aligned Carbon Nanotube Tapes Viable over a Wide Range of Temperatures. Nano Letters, 2019, 19, 6756-6764. | 4.5 | 17 |
| 105 | Interfacial Gated Graphene Photodetector with Broadband Response. ACS Applied Materials & Interfaces, 2021, 13, 22796-22805. | 4.0 | 16 |
| 106 | Metal-film-assisted ultra-clean transfer of single-walled carbon nanotubes. Nano Research, 2014, 7, 981-989. | 5.8 | 15 |
| 107 | A flexible, multifunctional, active terahertz modulator with an ultra-low triggering threshold. Journal of Materials Chemistry C, 2020, 8, 10213-10220. | 2.7 | 15 |
| 108 | Effect of Mg Cation Diffusion Coefficient on Mg Dendrite Formation. ACS Applied Materials & Interfaces, 2022, 14, 6499-6506. | 4.0 | 14 |

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|-----|---|-----|-----------|
| 109 | Field emission behavior study of multiwalled carbon nanotube yarn under the influence of adsorbents. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010, 28, 736-739. | 0.6 | 13 |
| 110 | Stressed carbon nanotube devices for high tunability, high quality factor, single mode GHz resonators. <i>Nano Research</i> , 2018, 11, 5812-5822. | 5.8 | 13 |
| 111 | A universal <i>in situ</i> strategy for charging supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15131-15136. | 5.2 | 13 |
| 112 | Few-Layer MoS ₂ Nanosheet/Carbon Nanotube Composite Films for Long-Lifetime Lithium Storage and Hydrogen Generation. <i>ACS Applied Nano Materials</i> , 2021, 4, 4754-4762. | 2.4 | 13 |
| 113 | Interface dipole enhancement effect and enhanced Rayleigh scattering. <i>Nano Research</i> , 2015, 8, 303-319. | 5.8 | 12 |
| 114 | Grouped and Multistep Nanoheteroepitaxy: Toward High-Quality GaN on Quasi-Periodic Nano-Mask. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 18208-18214. | 4.0 | 12 |
| 115 | Scanning electron microscopy imaging of single-walled carbon nanotubes on substrates. <i>Nano Research</i> , 2017, 10, 1804-1818. | 5.8 | 12 |
| 116 | Glassy magnetic ground state in layered compound MnSb ₂ Te ₄ . <i>Science China Materials</i> , 2022, 65, 477-485. | 3.5 | 12 |
| 117 | Ice-Assisted Transfer of Carbon Nanotube Arrays. <i>Nano Letters</i> , 2015, 15, 1843-1848. | 4.5 | 11 |
| 118 | Cross-stacked carbon nanotubes assisted self-separation of free-standing GaN substrates by hydride vapor phase epitaxy. <i>Scientific Reports</i> , 2016, 6, 28620. | 1.6 | 11 |
| 119 | Sandwich-structured cathodes with cross-stacked carbon nanotube films as conductive layers for high-performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4047-4057. | 5.2 | 11 |
| 120 | Direct discrimination between semiconducting and metallic single-walled carbon nanotubes with high spatial resolution by SEM. <i>Nano Research</i> , 2017, 10, 1896-1902. | 5.8 | 11 |
| 121 | Reconfigurable Tunneling Transistors Heterostructured by an Individual Carbon Nanotube and MoS ₂ . <i>Nano Letters</i> , 2021, 21, 6843-6850. | 4.5 | 11 |
| 122 | Conventional triode ionization gauge with carbon nanotube cold electron emitter. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2008, 26, 1-4. | 0.9 | 10 |
| 123 | Formation of free-standing carbon nanotube array on super-aligned carbon nanotube film and its field emission properties. <i>Nano Research</i> , 2012, 5, 421-426. | 5.8 | 10 |
| 124 | Self-Expansion Construction of Ultralight Carbon Nanotube Aerogels with a 3D and Hierarchical Cellular Structure. <i>Small</i> , 2017, 13, 1700966. | 5.2 | 10 |
| 125 | Free-standing hybrid films comprising of ultra-dispersed titania nanocrystals and hierarchical conductive network for excellent high rate performance of lithium storage. <i>Nano Research</i> , 2021, 14, 2301-2308. | 5.8 | 10 |
| 126 | Spherical field emission cathode based on carbon nanotube paste and its application in luminescent bulbs. <i>Journal of Vacuum Science & Technology B</i> , 2008, 26, 1404. | 1.3 | 9 |

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|-----|--|-----|-----------|
| 127 | Nanoscale field emission in inert gas under atmospheric pressure. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010, 28, 562-566. | 0.6 | 9 |
| 128 | Inverse Hysteresis and Ultrasmall Hysteresis Thin-Film Transistors Fabricated Using Sputtered Dielectrics. <i>Advanced Electronic Materials</i> , 2017, 3, 1600483. | 2.6 | 9 |
| 129 | Laser-Graving-Assisted Fabrication of Foldable Supercapacitors for On-Chip Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 42172-42178. | 4.0 | 9 |
| 130 | High temperature performance of coaxial h-BN/CNT wires above 1,000 °C: Thermionic electron emission and thermally activated conductivity. <i>Nano Research</i> , 2019, 12, 1855-1861. | 5.8 | 9 |
| 131 | Emission Enhancement from CdSe/ZnS Quantum Dots Induced by Strong Localized Surface Plasmonic Resonances without Damping. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2113-2120. | 2.1 | 9 |
| 132 | Ultra-stretchable supercapacitors based on biaxially pre-strained super-aligned carbon nanotube films. <i>Nanoscale</i> , 2020, 12, 24259-24265. | 2.8 | 9 |
| 133 | Study of Carbon Nanotubes as Etching Masks and Related Applications in the Surface Modification of GaAs-based Light-Emitting Diodes. <i>Small</i> , 2015, 11, 4111-4116. | 5.2 | 8 |
| 134 | Perovskite photodetectors prepared by flash evaporation printing. <i>RSC Advances</i> , 2017, 7, 34795-34800. | 1.7 | 8 |
| 135 | Carbon Nanotube Film Gate in Vacuum Electronic Devices. <i>Nano Letters</i> , 2018, 18, 4691-4696. | 4.5 | 8 |
| 136 | Nanostructured Co ₃ O ₄ Asymmetrically Deposited on a Single Carbon Cloth for an All-Solid-State Integrated Hybrid Device with Reversible Zinc-Air High-Energy Conversion and Asymmetric Supercapacitive High-Power Delivery. <i>Energy & Fuels</i> , 2021, 35, 12706-12717. | 2.5 | 8 |
| 137 | Schottky contact of an artificial polymer semiconductor composed of poly(dimethylsiloxane) and multiwall carbon nanotubes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19539-19544. | 5.2 | 7 |
| 138 | High Water-Absorbent and Phase-Change Heat Dissipation Materials Based on Super-Aligned Cross-Stack CNT Films. <i>Advanced Engineering Materials</i> , 2019, 21, 1801216. | 1.6 | 7 |
| 139 | Structural Effects on a Sandwich-Like Hydrocapacitor and Its Mechanism Research. <i>ACS Applied Energy Materials</i> , 2020, 3, 9468-9476. | 2.5 | 7 |
| 140 | A new type of flexible energy harvesting device working with micro water droplets achieving high output. <i>Journal of Materials Chemistry A</i> , 2021, 9, 23555-23562. | 5.2 | 7 |
| 141 | Gate-tunable contact-induced Fermi-level shift in semimetal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2119016119. | 3.3 | 7 |
| 142 | UV-based nanoimprinting lithography with a fluorinated flexible stamp. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011, 29, 021015. | 0.6 | 6 |
| 143 | Energy Harvesting and Storage by Water Infiltration of Eggshell Membrane. <i>Energy Technology</i> , 2020, 8, 1901192. | 1.8 | 6 |
| 144 | Lithium Storage Mechanism and Application of Micron-Sized Lattice-Reversible Binary Intermetallic Compounds as High-Performance Flexible Lithium-Ion Battery Anodes. <i>Small</i> , 2022, 18, e2105172. | 5.2 | 6 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 145 | Graphene as discharge layer for electron beam lithography on insulating substrate. Applied Physics Letters, 2013, 103, 113107. | 1.5 | 5 |
| 146 | Actuators: Multiresponsive Bidirectional Bending Actuators Fabricated by a Pencil-on-Paper Method (Adv. Funct. Mater. 40/2016). Advanced Functional Materials, 2016, 26, 7368-7368. | 7.8 | 5 |
| 147 | Seeded growth of high-quality transition metal dichalcogenide single crystals via chemical vapor transport. CrystEngComm, 2020, 22, 8017-8022. | 1.3 | 5 |
| 148 | Bidirectional micro-actuators based on eccentric coaxial composite oxide nanofiber. Nano Research, 2020, 13, 2451-2459. | 5.8 | 5 |
| 149 | Freestanding macroscopic metal-oxide nanotube films derived from carbon nanotube film templates. Nano Research, 2015, 8, 2024-2032. | 5.8 | 4 |
| 150 | The adsorption state and the evolution of field emission properties of graphene edges at different temperatures. RSC Advances, 2018, 8, 31830-31834. | 1.7 | 4 |
| 151 | The influence of charging and discharging on the thermal properties of a carbon nanotube/polyaniline nanocomposite electrode. RSC Advances, 2019, 9, 7629-7634. | 1.7 | 4 |
| 152 | Epitaxial growth and electrical transport properties of La _{0.5} Sr _{0.5} CoO ₃ thin films prepared by pulsed laser deposition. Science in China Series A: Mathematics, 1999, 42, 865-872. | 0.5 | 3 |
| 153 | Raman spectra of SiC nanorods with different excitation wavelengths. Science Bulletin, 2001, 46, 1865-1866. | 1.7 | 3 |
| 154 | On-chip torsion balances with femtonewton force resolution at room temperature enabled by carbon nanotube and graphene. Science Advances, 2021, 7, . | 4.7 | 3 |
| 155 | Superaligned arrays, films, and yarns of carbon nanotubes: a road toward applications. Scientia Sinica: Physica, Mechanica Et Astronomica, 2011, 41, 390-403. | 0.2 | 3 |
| 156 | Toward an Intelligent Synthesis: Monitoring and Intervening in the Catalytic Growth of Carbon Nanotubes. Journal of the American Chemical Society, 2021, 143, 17607-17614. | 6.6 | 3 |
| 157 | Enhanced Visible-Light Absorption and Photocurrent Generation of Three-Dimensional Metal-Dielectric Hybrid-Structured Films. ACS Applied Energy Materials, 2021, 4, 10542-10552. | 2.5 | 3 |
| 158 | Substrate Engineering-Tailored Fabrication of Aligned Graphene Nanoribbon Arrays: Implications for Graphene Electronic Devices. ACS Applied Nano Materials, 2021, 4, 13838-13847. | 2.4 | 3 |
| 159 | A process study of electron beam nano-lithography and deep etching with an ICP system. Science in China Series D: Earth Sciences, 2009, 52, 1665-1671. | 0.9 | 2 |
| 160 | CNT Research: from Academic Wonder to Industrial Exploration. , 2009, , . | | 2 |
| 161 | Modeling and optimization of ambipolar graphene transistors in the diffusive limit. Journal of Applied Physics, 2013, 114, 164508. | 1.1 | 2 |
| 162 | Dielectric-Like Behavior of Graphene in Au Plasmon Resonator. Nanoscale Research Letters, 2016, 11, 541. | 3.1 | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|----------|-----------|
| 163 | Li ⁺ S Batteries: Ultrathin MnO ₂ /Graphene Oxide/Carbon Nanotube Interlayer as Efficient Polysulfide Trapping Shield for High-Performance Li ⁺ S Batteries (Adv. Funct. Mater. 18/2017). Advanced Functional Materials, 2017, 27, . | 7.8 | 1 |
| 164 | Enhanced light transmission of carbon nanotube film by ultrathin oxide coatings. AIP Advances, 2020, 10, 075304. | 0.6 | 1 |
| 165 | The Influence of Carbon Nanotube's Conductivity and Diameter on Its Thermionic Electron Emission. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 2000069. | 0.8 | 1 |
| 166 | Optical Phonon Scattering Dominated Transport in Individual Suspended Carbon Nanotubes. Physica Status Solidi (B): Basic Research, 2020, 257, 2000103. | 0.7 | 1 |
| 167 | Ionic Sensing Hydrogels: Ultrasensitive, Low-Voltage Operational, and Asymmetric Ionic Sensing Hydrogel for Multipurpose Applications (Adv. Funct. Mater. 12/2020). Advanced Functional Materials, 2020, 30, 2070080. | 7.8 | 1 |
| 168 | Iodide-substitution-induced phase transition of chemical-vapor-deposited MoS ₂ . Journal of Materials Chemistry C, 2022, 10, 1638-1644. | 2.7 | 1 |
| 169 | SEM imaging of insulating specimen through a transparent conducting veil of carbon nanotube. Nano Research, 2022, 15, 6407-6415. | 5.8 | 1 |
| 170 | The exposure process study of 100KV JBX-6300LS electron-beam nanolithograph system. , 2008, , . | | 0 |
| 171 | Lithium Batteries: Highly Nitridated Graphene-Li ₂ S Cathodes with Stable Modulated Cycles (Adv.) Tj ETQq1 1 0.784314 r gBT /Overlock 10.2 | 0.784314 | 0 |
| 172 | Deformation Effect on the Electrical Properties of a Flexible Organic Semiconductor composed of Poly(dimethylsiloxane) and Multiwalled Carbon Nanotubes. Advanced Electronic Materials, 2016, 2, 1500421. | 2.6 | 0 |
| 173 | The Influence of Carbon Nanotube's Conductivity and Diameter on Its Thermionic Electron Emission. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 2070048. | 0.8 | 0 |
| 174 | Tailorable Capacitive Tactile Sensor Based on Stretchable and Dissolvable Porous Silver Nanowire/Polyvinyl Alcohol Nanocomposite Hydrogel for Wearable Human Motion Detection (Adv.) Tj ETQq0 0 0 r gBT /Overlock 10 Tf 5 | | 0 |