# Ya-Qiong Xu

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7862484/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 52 papers | 2,303 citations | 279798 23 h-index | 206112 48 g-index |
| 53 all docs | 53 docs citations | 53 times ranked | 3639 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Half-Metallic Ferromagnetism and Structural Stability of Zincblende Phases of the Transition-Metal Chalcogenides. Physical Review Letters, 2003, 91, 037204. | 7.8 | 321 |
| 2 | Polarized photocurrent response in black phosphorus field-effect transistors. Nanoscale, 2014, 6, 8978-8983. | 5.6 | 308 |
| 3 | Controlled Multistep Purification of Single-Walled Carbon Nanotubes. Nano Letters, 2005, 5, 163-168. | 9.1 | 130 |
| 4 | Half-metallic ferromagnetism of MnBi in the zinc-blende structure. Physical Review B, 2002, 66, . | 3.2 | 127 |
| 5 | Anisotropic photocurrent response at black phosphorusâ€“MoS<sub>2</sub>pâ€“n heterojunctions. Nanoscale, 2015, 7, 18537-18541. | 5.6 | 118 |
| 6 | High-Performance WSe<sub>2</sub> Phototransistors with 2D/2D Ohmic Contacts. Nano Letters, 2018, 18, 2766-2771. | 9.1 | 105 |
| 7 | Formation of Highly Dense Aligned Ribbons and Transparent Films of Single-Walled Carbon Nanotubes Directly from Carpets. ACS Nano, 2008, 2, 1871-1878. | 14.6 | 98 |
| 8 | Vertical Array Growth of Small Diameter Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2006, 128, 6560-6561. | 13.7 | 93 |
| 9 | Investigation of Optimal Parameters for Oxide-Assisted Growth of Vertically Aligned Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2009, 113, 4125-4133. | 3.1 | 91 |
| 10 | Plasmonic Hot Electron Induced Photocurrent Response at MoS<sub>2</sub>â€“Metal Junctions. ACS Nano, 2015, 9, 5357-5363. | 14.6 | 91 |
| 11 | Dry Contact Transfer Printing of Aligned Carbon Nanotube Patterns and Characterization of Their Optical Properties for Diameter Distribution and Alignment. ACS Nano, 2010, 4, 1131-1145. | 14.6 | 90 |
| 12 | Half-metallic ferromagnetism of MnBi in zincblende phase. Physica B: Condensed Matter, 2003, 329-333, 1117-1118. | 2.7 | 48 |
| 13 | Effects of atomic hydrogen and active carbon species in 1mm vertically aligned single-walled carbon nanotube growth. Applied Physics Letters, 2006, 89, 123116. | 3.3 | 45 |
| 14 | Membrane cholesterol mediates the cellular effects of monolayer graphene substrates. Nature Communications, 2018, 9, 796. | 12.8 | 45 |
| 15 | Observation of superdiffusive phonon transport in aligned atomic chains. Nature Nanotechnology, 2021, 16, 764-768. | 31.5 | 43 |
| 16 | Electrical and Thermal Transport through Silver Nanowires and Their Contacts: Effects of Elastic Stiffening. Nano Letters, 2020, 20, 7389-7396. | 9.1 | 40 |
| 17 | Supergrowth of Nitrogen-Doped Single-Walled Carbon Nanotube Arrays: Active Species, Dopant Characterization, and Doped/Undoped Heterojunctions. ACS Nano, 2011, 5, 6925-6934. | 14.6 | 37 |
| 18 | Distinct Signatures of Electronâ€“Phonon Coupling Observed in the Lattice Thermal Conductivity of NbSe<sub>3</sub> Nanowires. Nano Letters, 2019, 19, 415-421. | 9.1 | 37 |

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|---|---|---|---|
| 19 | The relationship between the Youngâ€™s modulus and dry etching rate of polydimethylsiloxane (PDMS). Biomedical Microdevices, 2019, 21, 26. | 2.8 | 31 |
| 20 | Dual-modality photothermal optical coherence tomography and magnetic-resonance imaging of carbon nanotubes. Optics Letters, 2012, 37, 872. | 3.3 | 30 |
| 21 | Visualizing Light Scattering in Silicon Waveguides with Black Phosphorus Photodetectors. Advanced Materials, 2016, 28, 7162-7166. | 21.0 | 29 |
| 22 | Alignment dependence of one-dimensional electronic hopping transport observed in films of highly aligned, ultralong single-walled carbon nanotubes. Applied Physics Letters, 2009, 94, . | 3.3 | 23 |
| 23 | Near-infrared optical transitions in PdSe<sub>2</sub> phototransistors. Nanoscale, 2019, 11, 14410-14416. | 5.6 | 23 |
| 24 | Gateâ€Tunable Photoresponse Time in Black Phosphorusâ€“MoS<sub>2</sub> Heterojunctions. Advanced Optical Materials, 2019, 7, 1800832. | 7.3 | 23 |
| 25 | Bending and Twisting of Suspended Single-Walled Carbon Nanotubes in Solution. Nano Letters, 2009, 9, 1609-1614. | 9.1 | 21 |
| 26 | Ultrafast Photocurrent Response and High Detectivity in Two-Dimensional MoSe<sub>2</sub>-based Heterojunctions. ACS Applied Materials & Interfaces, 2020, 12, 46476-46482. | 8.0 | 21 |
| 27 | Impact of Graphene on the Efficacy of Neuron Culture Substrates. Advanced Healthcare Materials, 2018, 7, e1701290. | 7.6 | 20 |
| 28 | Reversible photo-induced doping in WSe<sub>2</sub> field effect transistors. Nanoscale, 2019, 11, 7358-7363. | 5.6 | 20 |
| 29 | Ultrathin Single-Walled Carbon Nanotube Network Framed Graphene Hybrids. ACS Applied Materials & Interfaces, 2015, 7, 5233-5238. | 8.0 | 19 |
| 30 | Photonic Structure-Integrated Two-Dimensional Material Optoelectronics. Electronics (Switzerland), 2016, 5, 93. | 3.1 | 19 |
| 31 | Effect of Competitive Surface Functionalization on Dual-Modality Fluorescence and Magnetic Resonance Imaging of Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2012, 116, 16319-16324. | 3.1 | 14 |
| 32 | Probing electrical signals in the retina via graphene-integrated microfluidic platforms. Nanoscale, 2016, 8, 19043-19049. | 5.6 | 14 |
| 33 | Ultrasensitive Graphene Optoelectronic Probes for Recording Electrical Activities of Individual Synapses. Nano Letters, 2018, 18, 5702-5708. | 9.1 | 13 |
| 34 | Curling graphene ribbons through thermal annealing. Applied Physics Letters, 2013, 103, 183103. | 3.3 | 9 |
| 35 | Thermal and optical properties of freestanding flat and stacked single-layer graphene in aqueous media. Applied Physics Letters, 2014, 104, . | 3.3 | 9 |
| 36 | Probing photoresponse of aligned single-walled carbon nanotube doped ultrathin MoS<sub>2</sub>. Nanotechnology, 2018, 29, 345205. | 2.6 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Tunneling Effects in Crossed Ta<sub>2</sub>Pt<sub>3</sub>Se<sub>8</sub>â€“Ta<sub>2</sub>Pd<sub>3</sub>Se<sub>8</sub> Nanowire Junctions: Implications for Anisotropic Photodetectors. ACS Applied Nano Materials, 2021, 4, 1817-1824. | 5.0 | 9 |
| 38 | Single-Walled Carbon Nanotube-Mediated Small Interfering RNA Delivery for Gastrin-Releasing Peptide Receptor Silencing in Human Neuroblastoma. Methods in Molecular Biology, 2013, 1026, 137-147. | 0.9 | 8 |
| 39 | Enhanced photoresponse in curled graphene ribbons. Nanoscale, 2013, 5, 12206. | 5.6 | 8 |
| 40 | Direct Measurement of Ï€ Coupling at the Single-Molecule Level using a Carbon Nanotube Force Sensor. Nano Letters, 2018, 18, 7883-7888. | 9.1 | 8 |
| 41 | Enhanced photocurrent response speed in charge-density-wave phase of TiSe<sub>2</sub>-metal junctions. Nanoscale, 2021, 13, 11836-11843. | 5.6 | 8 |
| 42 | Atomic-ensemble-based quantum repeater against general polarization and phase noise. Physical Review A, 2011, 84, . | 2.5 | 6 |
| 43 | Magneto-fluorescent carbon nanotube-mediated siRNA for gastrin-releasing peptide receptor silencing in neuroblastoma. RSC Advances, 2013, 3, 4544. | 3.6 | 5 |
| 44 | Net negative contributions of free electrons to the thermal conductivity of NbSe<sub>3</sub> nanowires. Physical Chemistry Chemical Physics, 2020, 22, 21131-21138. | 2.8 | 4 |
| 45 | Formation mechanism of adatom islands on fcc (111) substrates. Journal Physics D: Applied Physics, 2001, 34, 1137-1142. | 2.8 | 3 |
| 46 | Growth of Single-Walled Carbon Nanotubes on a Nanorough Surface. Journal of Physical Chemistry C, 2007, 111, 9142-9145. | 3.1 | 3 |
| 47 | In situ monitoring of electrical and optoelectronic properties of suspended graphene ribbons during laser-induced morphological changes. Nanoscale Advances, 2020, 2, 4034-4040. | 4.6 | 3 |
| 48 | Probing Light-Stimulated Activities in the Retina via Transparent Graphene Electrodes. ACS Applied Bio Materials, 2022, 5, 305-312. | 4.6 | 2 |
| 49 | Theoretical study of dielectronic recombination between electrons and heliumlike carbon ions. Physical Review A, 2000, 62, . | 2.5 | 1 |
| 50 | Relativistic Calculation of Dielectronic Recombination on the C 4+ Ground State. Chinese Physics Letters, 2001, 18, 761-763. | 3.3 | 1 |
| 51 | Controlling the growth morphology of carbon nanotubes: from suspended bridges to upright forests. Nanoscale, 2012, 4, 1682. | 5.6 | 1 |
| 52 | Optical Momentum Alignment Effect in WSe 2 Phototransistor. Advanced Optical Materials, 2021, 9, 2002243. | 7.3 | 0 |