# Mingfa Peng

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8034040/publications.pdf

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|---|---|---|---|
| 24<br>papers | 1,225<br>citations | 361413<br>20<br>h-index | 610901<br>24<br>g-index |
| 24<br>all docs | 24<br>docs citations | 24<br>times ranked | 1599<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Multifunctional power unit by hybridizing contact-separate triboelectric nanogenerator, electromagnetic generator and solar cell for harvesting blue energy. Nano Energy, 2017, 39, 608-615. | 16.0 | 117 |
| 2 | Large-scale synthesis of graphene by the reduction of graphene oxide at room temperature using metal nanoparticles as catalyst. Carbon, 2013, 52, 559-564. | 10.3 | 104 |
| 3 | All flexible electrospun papers based self-charging power system. Nano Energy, 2017, 38, 210-217. | 16.0 | 97 |
| 4 | Selfâ€Powered Vehicle Emission Testing System Based on Coupling of Triboelectric and Chemoresistive Effects. Advanced Functional Materials, 2018, 28, 1703420. | 14.9 | 95 |
| 5 | Flexible Self-Powered Real-Time Ultraviolet Photodetector by Coupling Triboelectric and Photoelectric Effects. ACS Applied Materials & Interfaces, 2020, 12, 19384-19392. | 8.0 | 80 |
| 6 | Atmospheric pressure difference driven triboelectric nanogenerator for efficiently harvesting ocean wave energy. Nano Energy, 2018, 54, 156-162. | 16.0 | 65 |
| 7 | Self-powered on-line ion concentration monitor in water transportation driven by triboelectric nanogenerator. Nano Energy, 2019, 62, 442-448. | 16.0 | 63 |
| 8 | High-performance flexible and broadband photodetectors based on PbS quantum dots/ZnO nanoparticles heterostructure. Science China Materials, 2019, 62, 225-235. | 6.3 | 56 |
| 9 | A liquid PEDOT:PSS electrode-based stretchable triboelectric nanogenerator for a portable self-charging power source. Nanoscale, 2019, 11, 7513-7519. | 5.6 | 55 |
| 10 | Self-driven photodetection based on impedance matching effect between a triboelectric nanogenerator and a MoS2 nanosheets photodetector. Nano Energy, 2019, 59, 492-499. | 16.0 | 50 |
| 11 | Impedance Matching Effect between a Triboelectric Nanogenerator and a Piezoresistive Pressure Sensor Induced Selfâ€Powered Weighing. Advanced Materials Technologies, 2018, 3, 1800054. | 5.8 | 49 |
| 12 | Reductive Self-Assembling of Ag Nanoparticles on Germanium Nanowires and Their Application in Ultrasensitive Surface-Enhanced Raman Spectroscopy. Chemistry of Materials, 2011, 23, 3296-3301. | 6.7 | 45 |
| 13 | Toward self-powered photodetection enabled by triboelectric nanogenerators. Journal of Materials Chemistry C, 2018, 6, 11893-11902. | 5.5 | 45 |
| 14 | Frequency-independent self-powered sensing based on capacitive impedance matching effect of triboelectric nanogenerator. Nano Energy, 2019, 65, 103984. | 16.0 | 44 |
| 15 | Thermal phase transformation of In2Se3 nanowires studied by in situ synchrotron radiation X-ray diffraction. Journal of Materials Chemistry, 2011, 21, 6944. | 6.7 | 40 |
| 16 | Magnetism-assisted assembled porous Fe3O4 nanoparticles and their electrochemistry for dopamine sensing. Microporous and Mesoporous Materials, 2012, 153, 35-40. | 4.4 | 35 |
| 17 | Allâ€Inorganic CsPbBr<sub>3</sub> Perovskite Nanocrystals/2D Nonâ€Layered Cadmium Sulfide Selenide for Highâ€Performance Photodetectors by Energy Band Alignment Engineering. Advanced Functional Materials, 2021, 31, 2105051. | 14.9 | 35 |
| 18 | One-dimensional CdS<sub>x</sub>Se<sub>1â^'x</sub> nanoribbons for high-performance rigid and flexible photodetectors. Journal of Materials Chemistry C, 2017, 5, 7521-7526. | 5.5 | 29 |

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|---|---|---|---|
| 19 | PbS Quantum Dots/2D Nonlayered CdS<sub>x</sub>Se<sub>1â€“x</sub> Nanosheet Hybrid Nanostructure for High-Performance Broadband Photodetectors. ACS Applied Materials & Interfaces, 2018, 10, 43887-43895. | 8.0 | 29 |
| 20 | Electronic Structure and Photoluminescence Origin of Single-Crystalline Germanium Oxide Nanowires with Green Light Emission. Journal of Physical Chemistry C, 2011, 115, 11420-11426. | 3.1 | 24 |
| 21 | Room-Temperature Direct Synthesis of PbSe Quantum Dot Inks for High-Detectivity Near-Infrared Photodetectors. ACS Applied Materials & Interfaces, 2021, 13, 51198-51204. | 8.0 | 20 |
| 22 | One-step synthesized PbSe nanocrystal inks decorated 2D MoS<sub>2</sub> heterostructure for high stability photodetectors with photoresponse extending to near-infrared region. Journal of Materials Chemistry C, 2022, 10, 2236-2244. | 5.5 | 18 |
| 23 | Flexible piezoelectric nanogenerators based on silicon nanowire/Î±-quartz composites for mechanical energy harvesting. Materials Letters, 2015, 160, 222-226. | 2.6 | 16 |
| 24 | Ultrasensitive surface-enhanced Raman scattering based gold deposited silicon nanowires. Applied Physics Letters, 2014, 104, . | 3.3 | 14 |