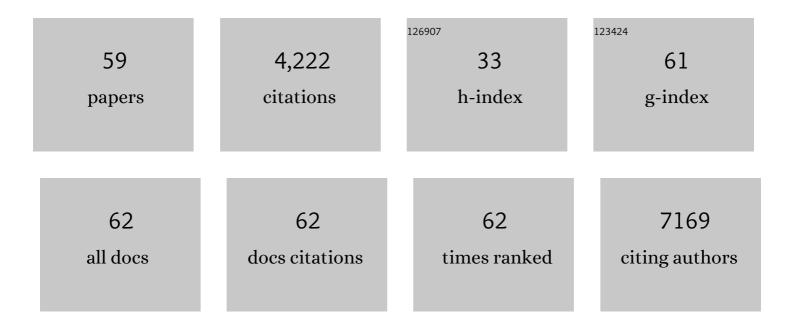
## Pengcheng Dai

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5813610/publications.pdf Version: 2024-02-01



| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Metalâ€Organic Frameworks Derived Nanotube of Nickel–Cobalt Bimetal Phosphides as Highly Efficient<br>Electrocatalysts for Overall Water Splitting. Advanced Functional Materials, 2017, 27, 1703455.   | 14.9 | 597       |
| 2  | High oxygen reduction activity on a metal–organic framework derived carbon combined with high<br>degree of graphitization and pyridinic-N dopants. Journal of Materials Chemistry A, 2017, 5, 789-795.  | 10.3 | 171       |
| 3  | Nickel metal–organic framework implanted on graphene and incubated to be ultrasmall nickel<br>phosphide nanocrystals acts as a highly efficient water splitting electrocatalyst. Journal of Materials<br>Chemistry A, 2018, 6, 1682-1691.       | 10.3 | 168       |
| 4  | Metal–organic frameworks: a promising platform for constructing non-noble electrocatalysts for the oxygen-reduction reaction. Journal of Materials Chemistry A, 2019, 7, 1964-1988.   | 10.3 | 165       |
| 5  | Forming Buried Junctions to Enhance the Photovoltage Generated by Cuprous Oxide in Aqueous Solutions. Angewandte Chemie - International Edition, 2014, 53, 13493-13497.   | 13.8 | 160       |
| 6  | Missing-node directed synthesis of hierarchical pores on a zirconium metal–organic framework with<br>tunable porosity and enhanced surface acidity via a microdroplet flow reaction. Journal of Materials<br>Chemistry A, 2017, 5, 22372-22379. | 10.3 | 159       |
| 7  | In Situ Synthesis Strategy for Hierarchically Porous Ni <sub>2</sub> P Polyhedrons from MOFs<br>Templates with Enhanced Electrochemical Properties for Hydrogen Evolution. ACS Applied Materials<br>& Interfaces, 2017, 9, 11642-11650.         | 8.0  | 158       |
| 8  | Improving Hematite-based Photoelectrochemical Water Splitting with Ultrathin TiO <sub>2</sub> by Atomic Layer Deposition. ACS Applied Materials & Interfaces, 2014, 6, 12005-12011.   | 8.0  | 155       |
| 9  | Template-free synthesis of boron nitride foam-like porous monoliths and their high-end applications in water purification. Journal of Materials Chemistry A, 2016, 4, 1469-1478.  | 10.3 | 133       |
| 10 | Phase selective synthesis of metastable orthorhombic Cu2ZnSnS4. Journal of Materials Chemistry, 2012, 22, 7502.   | 6.7  | 123       |
| 11 | Adsorption Site Selective Occupation Strategy within a Metal–Organic Framework for Highly<br>Efficient Sieving Acetylene from Carbon Dioxide. Angewandte Chemie - International Edition, 2021, 60,<br>4570-4574.                                | 13.8 | 117       |
| 12 | Improved Li <sup>+</sup> Storage through Homogeneous Nâ€Doping within Highly Branched Tubular<br>Graphitic Foam. Advanced Materials, 2017, 29, 1603692.   | 21.0 | 113       |
| 13 | Multifunctional Superelastic Foam-Like Boron Nitride Nanotubular Cellular-Network Architectures.<br>ACS Nano, 2017, 11, 558-568.  | 14.6 | 110       |
| 14 | Band-gap tunable (Cu2Sn)x/3Zn1â^'xS nanoparticles for solar cells. Chemical Communications, 2010, 46,<br>5749.  | 4.1  | 105       |
| 15 | Solar Hydrogen Generation by Silicon Nanowires Modified with Platinum Nanoparticle Catalysts by<br>Atomic Layer Deposition. Angewandte Chemie - International Edition, 2013, 52, 11119-11123.   | 13.8 | 100       |
| 16 | Design of BN porous sheets with richly exposed (002) plane edges and their application as TiO2 visible<br>light sensitizer. Nano Energy, 2015, 16, 19-27.   | 16.0 | 99        |
| 17 | Spherical Superstructure of Boron Nitride Nanosheets Derived from Boron-Containing<br>Metal–Organic Frameworks. Journal of the American Chemical Society, 2020, 142, 8755-8762.   | 13.7 | 96        |
| 18 | Porous copper zinc tin sulfide thin film as photocathode for double junction photoelectrochemical solar cells. Chemical Communications, 2012, 48, 3006.   | 4.1  | 89        |

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|----|--|------|-----------|
| 19 | Bottom-Up Fabrication of Ultrathin 2D Zr Metal–Organic Framework Nanosheets through a Facile<br>Continuous Microdroplet Flow Reaction. Chemistry of Materials, 2018, 30, 3048-3059.  | 6.7  | 85        |
| 20 | High-throughput fabrication of strutted graphene by ammonium-assisted chemical blowing for high-performance supercapacitors. Nano Energy, 2015, 16, 81-90.   | 16.0 | 83        |
| 21 | Biomass-Derived Carbon Paper to Sandwich Magnetite Anode for Long-Life Li-Ion Battery. ACS Nano, 2019, 13, 11901-11911.  | 14.6 | 82        |
| 22 | Densely Interconnected Porous BN Frameworks for Multifunctional and Isotropically<br>Thermoconductive Polymer Composites. Advanced Functional Materials, 2018, 28, 1801205.  | 14.9 | 76        |
| 23 | Highly dispersed Zn nanoparticles confined in a nanoporous carbon network: promising anode<br>materials for sodium and potassium ion batteries. Journal of Materials Chemistry A, 2018, 6, 17371-17377.  | 10.3 | 75        |
| 24 | Aluminum matrix composites reinforced with multi-walled boron nitride nanotubes fabricated by a high-pressure torsion technique. Materials and Design, 2015, 88, 451-460.  | 7.0  | 67        |
| 25 | Pollutant capturing SERS substrate: porous boron nitride microfibers with uniform silver nanoparticle decoration. Nanoscale, 2015, 7, 18992-18997.   | 5.6  | 56        |
| 26 | Monodispersed cation-disordered cubic AgInS2 nanocrystals with enhanced fluorescence. Applied Physics Letters, 2010, 96, .   | 3.3  | 51        |
| 27 | Superstructure of a Metal–Organic Framework Derived from Microdroplet Flow Reaction: An<br>Intermediate State of Crystallization by Particle Attachment. ACS Nano, 2019, 13, 2901-2912.  | 14.6 | 47        |
| 28 | Graphitic carbon nitride catalyzes selective oxidative dehydrogenation of propane. Applied Catalysis B:<br>Environmental, 2020, 262, 118277.   | 20.2 | 47        |
| 29 | Sustained-Release Method for the Directed Synthesis of ZIF-Derived Ultrafine Co-N-C ORR Catalysts<br>with Embedded Co Quantum Dots. ACS Applied Materials & Interfaces, 2020, 12, 57847-57858.   | 8.0  | 46        |
| 30 | One-step and scalable synthesis of Ni2P nanocrystals encapsulated in N,P-codoped hierarchically<br>porous carbon matrix using a bipyridine and phosphonate linked nickel metal–organic framework as<br>highly efficient electrocatalysts for overall water splitting. Electrochimica Acta, 2019, 297, 755-766. | 5.2  | 44        |
| 31 | Cotton fabrics-derived flexible nitrogen-doped activated carbon cloth for high-performance supercapacitors in organic electrolyte. Electrochimica Acta, 2020, 354, 136717.   | 5.2  | 44        |
| 32 | Boosting fast and stable potassium storage of iron selenide/carbon nanocomposites by electrolyte salt and solvent chemistry. Journal of Power Sources, 2021, 486, 229373.  | 7.8  | 41        |
| 33 | Paper-Derived Flexible 3D Interconnected Carbon Microfiber Networks with Controllable Pore Sizes for Supercapacitors. ACS Applied Materials & Interfaces, 2018, 10, 37046-37056.   | 8.0  | 38        |
| 34 | Boosting Fast and Stable Alkali Metal Ion Storage by Synergistic Engineering of Oxygen Vacancy and<br>Amorphous Structure. Advanced Functional Materials, 2022, 32, 2106751.   | 14.9 | 38        |
| 35 | Adsorption in Reversed Order of C <sub>2</sub> Hydrocarbons on an Ultramicroporous Fluorinated<br>Metalâ€Organic Framework. Angewandte Chemie - International Edition, 2022, 61, .   | 13.8 | 34        |
| 36 | Continuous synthesis for zirconium metal-organic frameworks with high quality and productivity via microdroplet flow reaction. Chinese Chemical Letters, 2018, 29, 849-853.  | 9.0  | 33        |

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|----|---|------|-----------|
| 37 | High performance aluminum ion battery using polyaniline/ordered mesoporous carbon composite.<br>Journal of Power Sources, 2020, 477, 228702.  | 7.8  | 33        |
| 38 | Adsorption Site Selective Occupation Strategy within a Metal–Organic Framework for Highly<br>Efficient Sieving Acetylene from Carbon Dioxide. Angewandte Chemie, 2021, 133, 4620-4624.  | 2.0  | 33        |
| 39 | Ultrafine TiO <sub>2</sub> Nanoparticles Confined in Nâ€Doped Porous Carbon Networks as Anodes of<br>Highâ€Performance Sodiumâ€lon Batteries. ChemElectroChem, 2017, 4, 1516-1522.  | 3.4  | 30        |
| 40 | Hierarchical tubular structures constructed from rutile TiO2 nanorods with superior sodium storage properties. Electrochimica Acta, 2016, 211, 77-82.   | 5.2  | 29        |
| 41 | A CoSe–C@C core–shell structure with stable potassium storage performance realized by an<br>effective solid electrolyte interphase layer. Journal of Materials Chemistry A, 2021, 9, 11397-11404.   | 10.3 | 28        |
| 42 | Flexible conductive polymer composite materials based on strutted graphene foam. Composites Communications, 2021, 25, 100757.   | 6.3  | 27        |
| 43 | Boosting ORR Catalytic Activity by Integrating Pyridineâ€N Dopants, a High Degree of Graphitization, and<br>Hierarchical Pores into a MOFâ€Đerived Nâ€Đoped Carbon in a Tandem Synthesis. Chemistry - an Asian<br>Journal, 2018, 13, 1318-1326. | 3.3  | 24        |
| 44 | Carbonates (bicarbonates)/reduced graphene oxide as anode materials for sodium-ion batteries.<br>Journal of Materials Chemistry A, 2017, 5, 24645-24650.  | 10.3 | 21        |
| 45 | Lithium Borocarbide LiBC as an Anode Material for Rechargeable Li-Ion Batteries. Journal of Physical<br>Chemistry C, 2018, 122, 18231-18236.  | 3.1  | 16        |
| 46 | Metal-organic framework derived porous flakes of cobalt chalcogenides (CoX, XÂ=ÂO, S, Se and Te)<br>rooted in carbon fibers as flexible electrode materials for pseudocapacitive energy storage.<br>Electrochimica Acta, 2021, 369, 137681.     | 5.2  | 16        |
| 47 | Carbon-coated NiSe nanoparticles anchored on reduced graphene oxide: a high-rate and long-life anode for potassium-ion batteries. Sustainable Energy and Fuels, 2021, 5, 3240-3246.   | 4.9  | 16        |
| 48 | Porous Carbon Polyhedrons with High-Level Nitrogen-Doping for High-Performance Sodium-Ion<br>Battery Anodes. ChemistrySelect, 2016, 1, 6442-6447.   | 1.5  | 14        |
| 49 | Constructing ultrastable electrode/electrolyte interface for rapid potassium ion storage capability via salt chemistry and interfacial engineering. Nano Research, 2022, 15, 2083-2091.   | 10.4 | 13        |
| 50 | Metal-organic Frameworks Derived CoS2-Co/N-doped Porous Carbon with Extremely High<br>Electrocatalytic Stability for the Oxygen Reduction Reaction. International Journal of<br>Electrochemical Science, 2016, 11, 9575-9584.                   | 1.3  | 11        |
| 51 | Synthesis of Mesoporous Î <sup>3</sup> -Al2O3 with Spongy Structure: In-Situ Conversion of Metal-Organic<br>Frameworks and Improved Performance as Catalyst Support in Hydrodesulfurization. Materials, 2018,<br>11, 1067.                      | 2.9  | 10        |
| 52 | Impact of moderative ligand hydrolysis on morphology evolution and the morphology-dependent breathing effect performance of MIL-53(Al). CrystEngComm, 2018, 20, 2102-2111.  | 2.6  | 9         |
| 53 | Nanoantenna Featuring Carbon Microtubes Derived from Bristle Fibers of Plane Trees for<br>Supercapacitors in an Organic Electrolyte. ACS Applied Energy Materials, 2020, 3, 12627-12634.  | 5.1  | 9         |
| 54 | High CO <sub>2</sub> separation performance on a metal–organic framework composed of<br>nano-cages lined with an ultra-high density of dual-side open metal sites. Materials Advances, 2022, 3,<br>493-497.                                     | 5.4  | 8         |

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|----|--|-----------------------|-----------|
| 55 | Porous monolith of few-layered boron nitride for effective water cleanup. Journal of Materials<br>Chemistry A, 2022, 10, 846-854.  | 10.3                  | 8         |
| 56 | Adsorption in Reversed Order of C <sub>2</sub> Hydrocarbons on an Ultramicroporous Fluorinated<br>Metalâ€Organic Framework. Angewandte Chemie, 2022, 134, .              | 2.0                   | 7         |
| 57 | Nanoparticle-based screen printing of copper zinc tin sulfide thin film as photocathode for quantum<br>dot sensitized solar cell. Materials Letters, 2015, 158, 198-201. | 2.6                   | 6         |
| 58 | Easy and General Synthesis of Large‣ized Mesoporous Rareâ€Earth Oxide Thin Films by ′Micelle Assemblyâ€<br>Chemistry - an Asian Journal, 2015, 10, 2590-2593.            | <sup>2</sup> .<br>3.3 | 2         |
| 59 | Carbonyl Groups Modified Graphite Sheets Catalyze Oxidative Dehydrogenation of Propane to<br>Propene. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2019, , 15.    | 1.3                   | 1         |