

# Rui-Ning Wang

## List of Publications by Year in descending order

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Version: 2024-02-01

27  
papers

490  
citations

932766

10  
h-index

676716

22  
g-index

27  
all docs

27  
docs citations

27  
times ranked

818  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Triple Functions of Ni(OH) <sub>2</sub> on the Surface of WN Nanowires Remarkably Promoting Electrocatalytic Activity in Full Water Splitting. ACS Catalysis, 2020, 10, 13323-13333.  | 5.5 | 120       |
| 2  | Controlled Fabrication of Hierarchically Structured Nitrogen-Doped Carbon Nanotubes as a Highly Active Bifunctional Oxygen Electrocatalyst. Advanced Functional Materials, 2017, 27, 1605717.   | 7.8 | 80        |
| 3  | Electrostatic Spin Crossover in a Molecular Junction of a Single-Molecule Magnet $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{Fe} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ . Physical Review Letters, 2012, 108, 017202. | 2.9 | 65        |
| 4  | High magnetoresistance in ultra-thin two-dimensional Cr-based MXenes. Nanoscale, 2018, 10, 19492-19497.   | 2.8 | 26        |
| 5  | Flatbands in 2D boroxine-linked covalent organic frameworks. Physical Chemistry Chemical Physics, 2016, 18, 1258-1264.  | 1.3 | 25        |
| 6  | Ultrahigh power factors in P-type 1T-ZrX <sub>2</sub> (X = S, Se) single layers. Science Bulletin, 2017, 62, 1530-1537.   | 4.3 | 25        |
| 7  | Variations of thermoelectric performance by electric fields in bilayer MX <sub>2</sub> (M = W, Mo; X = S, Se, Te) heterostructures. Applied Physics Letters, 2019, 115, 082401.   | 1.3 | 19        |
| 8  | Mechanical properties of 1T-, 1T', and 1H'-MX <sub>2</sub> monolayers and their 1H'/1T'-MX <sub>2</sub> (M = Mo, W and X = S, Se, Te) heterostructures. AIP Advances, 2019, 9, .  | 0.6 | 13        |
| 9  | Impact of contact couplings on thermoelectric properties of anti, Fano, and Breit-Wigner resonant junctions. Journal of Applied Physics, 2016, 120, 184303.   | 1.1 | 12        |
| 10 | Quasi-bonding-induced gap states in metal/two-dimensional semiconductor junctions: Route for Schottky barrier height reduction. Physical Review B, 2022, 105, .   | 1.1 | 11        |
| 11 | Semiconductor-metal transition of titanium sesquioxide nanopowder. Journal of Applied Physics, 2012, 111, 123509.   | 1.1 | 10        |
| 12 | Hole- and electron-injection driven phase transitions in transition metal dichalcogenides and beyond: A unified understanding. Physical Review B, 2022, 105, .  | 1.1 | 10        |
| 13 | First-Principles Analysis of Corrugations, Elastic Constants, and Electronic Properties in Strained Graphyne Nanoribbons. Journal of Physical Chemistry C, 2014, 118, 23328-23334.  | 1.5 | 9         |
| 14 | High-throughput screening of TMOCl cathode materials based on the full-cell system for chloride-ion batteries. Journal of Materials Chemistry A, 2021, 9, 23169-23177.  | 5.2 | 9         |
| 15 | Efficient hydrogen production via sunlight-driven thermal formic acid decomposition over a porous film of molybdenum carbide. Journal of Materials Chemistry A, 2021, 9, 22481-22488.   | 5.2 | 9         |
| 16 | Intra- and inter-layer charge redistribution in biased bilayer graphene. AIP Advances, 2016, 6, .   | 0.6 | 8         |
| 17 | Spin-wave modes of elliptical skyrmions in magnetic nanodots. New Journal of Physics, 2022, 24, 043005.   | 1.2 | 7         |
| 18 | Inverse design and high-throughput screening of TM-A (TM: Transition metal; A: O, S, Se) cathodes for chloride-ion batteries. Energy Storage Materials, 2022, 51, 80-87.  | 9.5 | 7         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Negative magnetoresistance and spin filtering of spin-coupled di-iron-oxo clusters. <i>Physical Review B</i> , 2014, 89, .   | 1.1 | 6         |
| 20 | Thermoelectric properties of fullerene-based junctions: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 28117-28124.  | 1.3 | 4         |
| 21 | Thermoelectricity in B80-based single-molecule junctions: First-principles investigation. <i>Frontiers of Physics</i> , 2019, 14, 1.   | 2.4 | 4         |
| 22 | Spin-wave modes of magnetic bimerons in nanodots. <i>New Journal of Physics</i> , 2022, 24, 073013.  | 1.2 | 3         |
| 23 | Topological insulator in tellurium-based perovskites. <i>International Journal of Modern Physics B</i> , 2015, 29, 1550073.  | 1.0 | 2         |
| 24 | Strain and electric field co-modulation of electronic properties of bilayer boronitrene. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 055302.  | 0.7 | 2         |
| 25 | Strain Modulation of Electronic and Heat Transport Properties of Bilayer Boronitrene. <i>International Journal of Thermophysics</i> , 2017, 38, 1.   | 1.0 | 2         |
| 26 | Electrocatalysts: Controlled Fabrication of Hierarchically Structured Nitrogen-Doped Carbon Nanotubes as a Highly Active Bifunctional Oxygen Electrocatalyst ( <i>Adv. Funct. Mater.</i> 9/2017). <i>Advanced Functional Materials</i> , 2017, 27, . | 7.8 | 1         |
| 27 | Strain-driven phase transition and spin polarization of Re-doped transition-metal dichalcogenides. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 9962-9970.   | 1.3 | 1         |