

# Kun Wang

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

1,859  
citations

218592

26  
h-index

265120

42  
g-index

45  
all docs

45  
docs citations

45  
times ranked

2235  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular rectifier composed of DNA with high rectification ratio enabled by intercalation. <i>Nature Chemistry</i> , 2016, 8, 484-490.	6.6	156
2	Peltier cooling in molecular junctions. <i>Nature Nanotechnology</i> , 2018, 13, 122-127.	15.6	120
3	Determining plasmonic hot-carrier energy distributions via single-molecule transport measurements. <i>Science</i> , 2020, 369, 423-426.	6.0	100
4	Influence of Quantum Interference on the Thermoelectric Properties of Molecular Junctions. <i>Nano Letters</i> , 2018, 18, 5666-5672.	4.5	93
5	Supramolecular Kandinsky circles with high antibacterial activity. <i>Nature Communications</i> , 2018, 9, 1815.	5.8	88
6	Multifunctional Lateral Transition-Metal Disulfides Heterojunctions. <i>Advanced Functional Materials</i> , 2020, 30, 2002939.	7.8	86
7	Side-Group-Mediated Mechanical Conductance Switching in Molecular Junctions. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15378-15382.	7.2	74
8	Thermal and Thermoelectric Properties of Molecular Junctions. <i>Advanced Functional Materials</i> , 2020, 30, 1904534.	7.8	72
9	Self-Assembly of Concentric Hexagons and Hierarchical Self-Assembly of Supramolecular Metal-Organic Nanoribbons at the Solid/Liquid Interface. <i>Journal of the American Chemical Society</i> , 2016, 138, 9258-9268.	6.6	68
10	Photoconductance from Exciton Binding in Molecular Junctions. <i>Journal of the American Chemical Society</i> , 2018, 140, 70-73.	6.6	64
11	Assembling Pentatopic Terpyridine Ligands with Three Types of Coordination Moieties into a Giant Supramolecular Hexagonal Prism: Synthesis, Self-Assembly, Characterization, and Antimicrobial Study. <i>Journal of the American Chemical Society</i> , 2019, 141, 16108-16116.	6.6	63
12	The electronic transport properties of transition-metal dichalcogenide lateral heterojunctions. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10962-10966.	2.7	59
13	Self-assembly of a supramolecular hexagram and a supramolecular pentagram. <i>Nature Communications</i> , 2017, 8, 15476.	5.8	53
14	Hierarchical Self-Assembly of Nanowires on the Surface by Metallo-Supramolecular Truncated Cuboctahedra. <i>Journal of the American Chemical Society</i> , 2021, 143, 5826-5835.	6.6	53
15	DNA-Based Single-Molecule Electronics: From Concept to Function. <i>Journal of Functional Biomaterials</i> , 2018, 9, 8.	1.8	49
16	Charge transfer complexation boosts molecular conductance through Fermi level pinning. <i>Chemical Science</i> , 2019, 10, 2396-2403.	3.7	47
17	Direct Self-Assembly of a 2D and 3D Star of David. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5258-5262.	7.2	44
18	Gating of single molecule junction conductance by charge transfer complex formation. <i>Nanoscale</i> , 2015, 7, 18949-18955.	2.8	41

#	ARTICLE	IF	CITATIONS
19	Modulation and Control of Charge Transport Through Single-Molecule Junctions. Topics in Current Chemistry, 2017, 375, 17.	3.0	39
20	Tuning the Electronic Structures and Transport Properties of Zigzag Blue Phosphorene Nanoribbons. IEEE Transactions on Electron Devices, 2018, 65, 4646-4651.	1.6	38
21	Measurement and understanding of single-molecule break junction rectification caused by asymmetric contacts. Journal of Chemical Physics, 2014, 141, 054712.	1.2	36
22	The rectifying and negative differential resistance effects in graphene/h-BN nanoribbon heterojunctions. Physical Chemistry Chemical Physics, 2016, 18, 27976-27980.	1.3	36
23	Direct Self-Assembly of a 2D and 3D Star of David. Angewandte Chemie, 2017, 129, 5342-5346.	1.6	36
24	Negative differential conductance effect and electrical anisotropy of 2D ZrB <sub>2</sub> monolayers. Journal of Physics Condensed Matter, 2019, 31, 065301.	0.7	33
25	Double-Layered Supramolecular Prisms Self-Assembled by Geometrically Non-equivalent Tetratopic Subunits. Angewandte Chemie - International Edition, 2021, 60, 1298-1305.	7.2	31
26	Structure determined charge transport in single DNA molecule break junctions. Chemical Science, 2014, 5, 3425-3431.	3.7	27
27	The rectifying effect of heterojunctions composed of carbon and boron nitride nanotubes. Organic Electronics, 2017, 50, 43-47.	1.4	26
28	The electronic transport properties of zigzag phosphorene-like MX (M = Ge/Sn, X = S/Se) nanostructures. Physical Chemistry Chemical Physics, 2017, 19, 17210-17215.	1.3	25
29	Molecular-level insights of early-stage prion protein aggregation on mica and gold surface determined by AFM imaging and molecular simulation. Colloids and Surfaces B: Biointerfaces, 2015, 135, 371-378.	2.5	24
30	FM-GRU: A Time Series Prediction Method for Water Quality Based on seq2seq Framework. Water (Switzerland), 2021, 13, 1031.	1.2	23
31	Research on a Handheld 3D Laser Scanning System for Measuring Large-Sized Objects. Sensors, 2018, 18, 3567.	2.1	22
32	Calibration of a flexible measurement system based on industrial articulated robot and structured light sensor. Optical Engineering, 2017, 56, 054103.	0.5	19
33	Mapping the Details of Contact Effect of Modulated Au-Octanedithiol-Au Break Junction by Force-Conductance Cross-Correlation. Journal of the American Chemical Society, 2014, 136, 17406-17409.	6.6	16
34	Force and conductance molecular break junctions with time series crosscorrelation. Nanoscale, 2014, 6, 5657.	2.8	12
35	Side-Group-Mediated Mechanical Conductance Switching in Molecular Junctions. Angewandte Chemie, 2017, 129, 15580-15584.	1.6	12
36	Measurement and control of detailed electronic properties in a single molecule break junction. Faraday Discussions, 2014, 174, 91-104.	1.6	11

#	ARTICLE	IF	CITATIONS
37	Superconductivity and topological properties of $\text{MgB}_2$ -type diborides from first principles. Physical Review B, 2021, 104, .		
38	Light-Driven Charge Transport and Optical Sensing in Molecular Junctions. Nanomaterials, 2022, 12, 698.	1.9	10
39	The magnetism and spin-dependent electronic transport properties of boron nitride atomic chains. Journal of Chemical Physics, 2016, 145, 044301.	1.2	9
40	Electron tunneling through molecule-electrode contacts of single alkane molecular junctions: experimental determination and a practical barrier model. Physical Chemistry Chemical Physics, 2016, 18, 9569-9576.	1.3	9
41	Double-Layered Supramolecular Prisms Self-Assembled by Geometrically Non-Equivalent Tetrapic Subunits. Angewandte Chemie, 2021, 133, 1318-1325.	1.6	8
42	Characterizing molecular junctions through the mechanically controlled break-junction approach. Reports in Electrochemistry, 0, , 1.	0.3	6
43	Human-Guided Evolutionary Story Narration. IEEE Access, 2018, 6, 13783-13802.	2.6	4
44	A Performance Evaluation Scheme for Multiple Object Tracking with HFSWR. Sensors, 2019, 19, 1393.	2.1	4
45	Beyond electrical conductance: progress and prospects in single-molecule junctions. Journal of Materials Chemistry C, 2022, 10, 13717-13733.	2.7	3