Kun Wang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4744782/publications.pdf

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	Light-Driven Charge Transport and Optical Sensing in Molecular Junctions. Nanomaterials, 2022, 12, 698.	1.9	10
2	Beyond electrical conductance: progress and prospects in single-molecule junctions. Journal of Materials Chemistry C, 2022, 10, 13717-13733.	2.7	3
3	Doubleâ€Layered Supramolecular Prisms Selfâ€Assembled by Geometrically Nonâ€equivalent Tetratopic Subunits. Angewandte Chemie, 2021, 133, 1318-1325.	1.6	8
4	Doubleâ€Layered Supramolecular Prisms Selfâ€Assembled by Geometrically Nonâ€equivalent Tetratopic Subunits. Angewandte Chemie - International Edition, 2021, 60, 1298-1305.	7.2	31
5	Hierarchical Self-Assembly of Nanowires on the Surface by Metallo-Supramolecular Truncated Cuboctahedra. Journal of the American Chemical Society, 2021, 143, 5826-5835.	6.6	53
6	FM-GRU: A Time Series Prediction Method for Water Quality Based on seq2seq Framework. Water (Switzerland), 2021, 13, 1031.	1.2	23
7	Superconductivity and topological properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>MgB</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> -type diborides from first principles. Physical Review B, 2021, 104, .	1.1	10
8	Thermal and Thermoelectric Properties of Molecular Junctions. Advanced Functional Materials, 2020, 30, 1904534.	7.8	72
9	Determining plasmonic hot-carrier energy distributions via single-molecule transport measurements. Science, 2020, 369, 423-426.	6.0	100
10	Multifunctional Lateral Transitionâ€Metal Disulfides Heterojunctions. Advanced Functional Materials, 2020, 30, 2002939.	7.8	86
11	Assembling Pentatopic Terpyridine Ligands with Three Types of Coordination Moieties into a Giant Supramolecular Hexagonal Prism: Synthesis, Self-Assembly, Characterization, and Antimicrobial Study. Journal of the American Chemical Society, 2019, 141, 16108-16116.	6.6	63
12	Charge transfer complexation boosts molecular conductance through Fermi level pinning. Chemical Science, 2019, 10, 2396-2403.	3.7	47
13	A Performance Evaluation Scheme for Multiple Object Tracking with HFSWR. Sensors, 2019, 19, 1393.	2.1	4
14	Negative differential conductance effect and electrical anisotropy of 2D ZrB₂ monolayers. Journal of Physics Condensed Matter, 2019, 31, 065301.	0.7	33
15	Human-Guided Evolutionary Story Narration. IEEE Access, 2018, 6, 13783-13802.	2.6	4
16	Peltier cooling in molecular junctions. Nature Nanotechnology, 2018, 13, 122-127.	15.6	120
17	Photoconductance from Exciton Binding in Molecular Junctions. Journal of the American Chemical Society, 2018, 140, 70-73.	6.6	64
18	Research on a Handheld 3D Laser Scanning System for Measuring Large-Sized Objects. Sensors, 2018, 18, 3567.	2.1	22

#	Article	IF	Citations
19	DNA-Based Single-Molecule Electronics: From Concept to Function. Journal of Functional Biomaterials, 2018, 9, 8.	1.8	49
20	Supramolecular Kandinsky circles with high antibacterial activity. Nature Communications, 2018, 9, 1815.	5.8	88
21	Influence of Quantum Interference on the Thermoelectric Properties of Molecular Junctions. Nano Letters, 2018, 18, 5666-5672.	4.5	93
22	Tuning the Electronic Structures and Transport Properties of Zigzag Blue Phosphorene Nanoribbons. IEEE Transactions on Electron Devices, 2018, 65, 4646-4651.	1.6	38
23	Modulation and Control of Charge Transport Through Single-Molecule Junctions. Topics in Current Chemistry, 2017, 375, 17.	3.0	39
24	Calibration of a flexible measurement system based on industrial articulated robot and structured light sensor. Optical Engineering, 2017, 56, 054103.	0.5	19
25	Self-assembly of a supramolecular hexagram and a supramolecular pentagram. Nature Communications, 2017, 8, 15476.	5.8	53
26	Direct Selfâ€Assembly of a 2D and 3D Star of David. Angewandte Chemie - International Edition, 2017, 56, 5258-5262.	7.2	44
27	Direct Selfâ€Assembly of a 2D and 3D Star of David. Angewandte Chemie, 2017, 129, 5342-5346.	1.6	36
28	Sideâ€Groupâ€Mediated Mechanical Conductance Switching in Molecular Junctions. Angewandte Chemie - International Edition, 2017, 56, 15378-15382.	7.2	74
29	Sideâ€Groupâ€Mediated Mechanical Conductance Switching in Molecular Junctions. Angewandte Chemie, 2017, 129, 15580-15584.	1.6	12
30	The rectifying effect of heterojunctions composed of carbon and boron nitride nanotubes. Organic Electronics, 2017, 50, 43-47.	1.4	26
31	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
32	Self-Assembly of Concentric Hexagons and Hierarchical Self-Assembly of Supramolecular Metalâ€“Organic Nanoribbons at the Solid/Liquid Interface. Journal of the American Chemical Society, 2016, 138, 9258-9268.	6.6	68
33	The magnetism and spin-dependent electronic transport properties of boron nitride atomic chains. Journal of Chemical Physics, 2016, 145, 044301.	1.2	9
34	Molecular rectifier composed of DNA with high rectification ratio enabled by intercalation. Nature Chemistry, 2016, 8, 484-490.	6.6	156
35	The rectifying and negative differential resistance effects in graphene/h-BN nanoribbon heterojunctions. Physical Chemistry Chemical Physics, 2016, 18, 27976-27980.	1.3	36
36	The electronic transport properties of transition-metal dichalcogenide lateral heterojunctions. Journal of Materials Chemistry C, 2016, 4, 10962-10966.	2.7	59

#	Article	IF	Citations
37	Electron tunneling through moleculeâ€“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
38	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
39	Gating of single molecule junction conductance by charge transfer complex formation. Nanoscale, 2015, 7, 18949-18955.	2.8	41
40	Mapping the Details of Contact Effect of Modulated Au-Octanedithiol-Au Break Junction by Forceâ€“Conductance Cross-Correlation. Journal of the American Chemical Society, 2014, 136, 17406-17409.	6.6	16
41	Measurement and understanding of single-molecule break junction rectification caused by asymmetric contacts. Journal of Chemical Physics, 2014, 141, 054712.	1.2	36
42	Measurement and control of detailed electronic properties in a single molecule break junction. Faraday Discussions, 2014, 174, 91-104.	1.6	11
43	Structure determined charge transport in single DNA molecule break junctions. Chemical Science, 2014, 5, 3425-3431.	3.7	27
44	Force and conductance molecular break junctions with time series crosscorrelation. Nanoscale, 2014, 6, 5657.	2.8	12
45	Characterizing molecular junctions through the mechanically controlled break-junction approach. Reports in Electrochemistry, 0, , 1.	0.3	6