

# Xi Yu

## List of Publications by Year in descending order

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59  
papers

2,522  
citations

304743

22  
h-index

189892

50  
g-index

62  
all docs

62  
docs citations

62  
times ranked

3646  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polyelectrolyte Multilayer as Matrix for Electrochemical Deposition of Gold Clusters: Toward Super-Hydrophobic Surface. <i>Journal of the American Chemical Society</i> , 2004, 126, 3064-3065.	13.7	627
2	Reversible pH-Responsive Surface: From Superhydrophobicity to Superhydrophilicity. <i>Advanced Materials</i> , 2005, 17, 1289-1293.	21.0	337
3	Self-Assembled Monolayers of Dendron Thiols for Electrodeposition of Gold Nanostructures: Toward Fabrication of Superhydrophobic/Superhydrophilic Surfaces and pH-Responsive Surfaces. <i>Langmuir</i> , 2005, 21, 1986-1990.	3.5	178
4	Surface Gradient Material: From Superhydrophobicity to Superhydrophilicity. <i>Langmuir</i> , 2006, 22, 4483-4486.	3.5	154
5	Tunneling explains efficient electron transport via protein junctions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E4577-E4583.	7.1	81
6	Tuning electronic transport via hepta-alanine peptides junction by tryptophan doping. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 10785-10790.	7.1	77
7	Phase Regulation Strategy of Perovskite Nanocrystals from 1D Orthorhombic $\text{NH}_4\text{PbI}_3$ to 3D Cubic $(\text{NH}_4)_{0.5}\text{Cs}_{0.5}\text{Pb}(\text{I}_{0.5}\text{Br}_{0.5})_3$ Phase Enhances Photoluminescence. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11642-11646.	13.8	75
8	Lead-free sodium bismuth halide $\text{Cs}_2\text{NaBiX}_6$ double perovskite nanocrystals with highly efficient photoluminescence. <i>Chemical Engineering Journal</i> , 2020, 397, 125367.	12.7	73
9	Mode-selective vibrational modulation of charge transport in organic electronic devices. <i>Nature Communications</i> , 2015, 6, 7880.	12.8	72
10	Magnetic solid-phase extraction of five pyrethroids from environmental water samples followed by ultrafast liquid chromatography analysis. <i>Talanta</i> , 2012, 98, 257-264.	5.5	55
11	Insights into Solid-State Electron Transport through Proteins from Inelastic Tunneling Spectroscopy: The Case of Azurin. <i>ACS Nano</i> , 2015, 9, 9955-9963.	14.6	54
12	Direct Fabrication of Functional and Biofunctional Nanostructures Through Reactive Imprinting. <i>Advanced Materials</i> , 2011, 23, 3165-3169.	21.0	48
13	Control of Surface Tension at Liquid-Liquid Interfaces Using Nanoparticles and Nanoparticle-Protein Complexes. <i>Langmuir</i> , 2012, 28, 2023-2027.	3.5	43
14	A Simple Structure Conjugated Polymer for High Mobility Organic Thin Film Transistors Processed from Nonchlorinated Solvent. <i>Advanced Science</i> , 2019, 6, 1902412.	11.2	43
15	Magnetic solid-phase extraction and ultrafast liquid chromatographic detection of Sudan dyes in red wines, juices, and mature vinegars. <i>Journal of Separation Science</i> , 2012, 35, 3403-3411.	2.5	39
16	Franck-Condon Blockade and Aggregation-Modulated Conductance in Molecular Devices Using Aggregation-Induced Emission-Active Molecules. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5951-5955.	13.8	36
17	Direct Patterning of Engineered Ionic Gold Nanoparticles via Nanoimprint Lithography. <i>Advanced Materials</i> , 2012, 24, 6330-6334.	21.0	32
18	Photoluminescence spectral broadening, chirality transfer and amplification of chiral perovskite materials ( $\text{R-X}_2\text{-mBZA}$ ) $\text{PbBr}_4$ (X = H, F, Cl, Br) regulated by van der Waals and halogen atoms interactions. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 17299-17305.	2.8	31

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19	The role of ligand coordination on the cytotoxicity of cationic quantum dots in HeLa cells. <i>Nanoscale</i> , 2013, 5, 12140.	5.6	30
20	Solvatochromic probes for detecting hydrogen-bond-donating solvents. <i>Chemical Communications</i> , 2014, 50, 4579.	4.1	29
21	Systematic Modulation of Charge Transport in Molecular Devices through Facile Control of Molecule-Electrode Coupling Using a Double Self-Assembled Monolayer Nanowire Junction. <i>Journal of the American Chemical Society</i> , 2020, 142, 9708-9717.	13.7	28
22	Determination of Sudan dyes in environmental water by magnetic mesoporous microsphere-based solid phase extraction ultra fast liquid chromatography. <i>Analytical Methods</i> , 2013, 5, 1399.	2.7	26
23	Development of a vortex-assisted ionic liquid microextraction method for the determination of aromatic amines in environmental water samples. <i>Analytical Methods</i> , 2012, 4, 2074.	2.7	22
24	Application of C18-functional magnetic nanoparticles for extraction of aromatic amines from human urine. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2014, 947-948, 49-56.	2.3	22
25	Ï-Extended Nonfullerene Acceptors for Efficient Organic Solar Cells with a High Open-Circuit Voltage of 0.94 V and a Low Energy Loss of 0.49 eV. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 22531-22539.	8.0	22
26	The analysis of charge transport mechanism in molecular junctions based on current-voltage characteristics. <i>Chemical Physics</i> , 2020, 528, 110514.	1.9	21
27	Flavin as a photo-active acceptor for efficient energy and charge transfer in a model donor-acceptor system. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 6749.	2.8	20
28	Fabrication of Reproducible, Integration-Compatible Hybrid Molecular/Si Electronics. <i>Small</i> , 2014, 10, 5151-5160.	10.0	20
29	Fabrication and Functionalization of Supramolecular Microgel Arrays Through Complementary Hydrogen-Bonding Interactions. <i>Small</i> , 2009, 5, 86-89.	10.0	16
30	Tubular Carbon Nitride with Hierarchical Network: Localized Charge Carrier Generation and Reduced Charge Recombination for High-Performance Photocatalysis of H <sub>2</sub> and H <sub>2</sub> O <sub>2</sub> Production. <i>Solar Rrl</i> , 2021, 5, 2000827.	5.8	15
31	Theoretical modeling of the hydrated serotonin in solution: Insight into intermolecular hydrogen bonding dynamics and spectral shift in the electronic excited states. <i>Journal of Molecular Liquids</i> , 2019, 288, 111093.	4.9	14
32	Impedance Spectroscopy of Ionic Ligand-Modulated Charge Transport of Gold Nanoparticle Films. <i>Small</i> , 2015, 11, 3814-3821.	10.0	13
33	A two-dimensional polymer memristor based on conformational changes with tunable resistive switching behaviours. <i>Journal of Materials Chemistry C</i> , 2022, 10, 2631-2638.	5.5	13
34	Modulated Rectification of Carboxylate-Terminated Self-Assembled Monolayer Junction by Humidity and Alkali Metal Ions: The Coupling and Asymmetric Factor Matter. <i>Journal of Physical Chemistry C</i> , 2021, 125, 21614-21623.	3.1	12
35	Phase Regulation Strategy of Perovskite Nanocrystals from 1D Orthomorphous NH <sub>4</sub> PbI <sub>3</sub> to 3D Cubic (NH <sub>4</sub> ) <sub>0.5</sub> Cs <sub>0.5</sub> Pb(I <sub>0.5</sub> Br <sub>0.5</sub> ) <sub>3</sub> Phase Enhances Photoluminescence. <i>Angewandte Chemie</i> , 2019, 131, 11768-11772.	2.0	11
36	Origins of asymmetric charge transport properties of weakly coupled molecular junctions. <i>Physical Review B</i> , 2019, 99, .	3.2	11

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37	Photooxidation of Nanopatterned Poly(chloromethylstyrene): Direct Formation of Crosslinked Aldehyde-Functionalized Films for Chemical Functionalization and Bioconjugation. <i>Macromolecular Rapid Communications</i> , 2010, 31, 910-914.	3.9	10
38	Excited state intramolecular proton transfer (ESIPT) luminescence mechanism for 4-N,N-diethylamino-3-hydroxyflavone in propylene carbonate, acetonitrile and the mixed solvents. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 224, 117416.	3.9	10
39	Tuning Rectification Properties of Molecular Electronic Devices by Mixed Monolayer. <i>Acta Chimica Sinica</i> , 2019, 77, 1031.	1.4	10
40	Controlling Rectification Performance by Tuning Molecule-Electrode Coupling Strength in Ferrocenyl-Undecanethiolate Molecular Diodes. <i>Journal of Physical Chemistry C</i> , 2019, 123, 1559-1565.	3.1	9
41	Model Study on the Ideal Current-Voltage Characteristics and Rectification Performance of a Molecular Rectifier under Single-Level-Based Tunneling and Hopping Transport. <i>Journal of Physical Chemistry C</i> , 2020, 124, 24408-24419.	3.1	8
42	Ternary Conductance Switching Realized by a Pillar[5]arene-Functionalized Two-Dimensional Imine Polymer Film. <i>Chemistry - A European Journal</i> , 2021, 27, 13605-13612.	3.3	8
43	Direct photopatterning of light-activated gold nanoparticles. <i>Journal of Materials Chemistry</i> , 2011, 21, 14156.	6.7	7
44	Tunable oligo-histidine self-assembled monolayer junction and charge transport by a pH modulated assembly. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 26058-26065.	2.8	7
45	Franck-Condon Blockade and Aggregation-Modulated Conductance in Molecular Devices Using Aggregation-Induced Emission-Active Molecules. <i>Angewandte Chemie</i> , 2019, 131, 6012-6016.	2.0	6
46	Artificial Intelligence for Contemporary Chemistry Research. <i>Acta Chimica Sinica</i> , 2020, 78, 1366.	1.4	6
47	Molecular recognition-induced liquid crystals from complementary diaminopyridine and flavin dyads. <i>Supramolecular Chemistry</i> , 2010, 22, 691-696.	1.2	5
48	Going with the electron flow. <i>Nature Nanotechnology</i> , 2011, 6, 693-694.	31.5	5
49	Improving the charge injection in bottom contact organic transistors by carbon electrodes. <i>Journal of Materials Chemistry C</i> , 2022, 10, 2838-2844.	5.5	5
50	Two-Pathway Viewpoint to Interpret Quantum Interference in Molecules Containing Five-Membered Heterocycles: Thienoacenes as Examples. <i>Journal of Physical Chemistry C</i> , 2019, 123, 15977-15984.	3.1	4
51	Study of the Redox Potentials of Benzoquinone and Its Derivatives by Combining Electrochemistry and Computational Chemistry. <i>Journal of Chemical Education</i> , 2021, 98, 3019-3025.	2.3	4
52	Fluorescence resonance energy transfer in recognition-mediated polymer-quantum dot assemblies. <i>Polymer Chemistry</i> , 2012, 3, 3072.	3.9	3
53	Transmission mechanism and quantum interference in fused thienoacenes coupling to Au electrodes through the thiophene rings. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 16293-16301.	2.8	3
54	New Progress in Molecular Electronics. <i>Acta Chimica Sinica</i> , 2019, 77, 485.	1.4	3

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55	Accurate Prediction of the Boiling Point of Organic Molecules by Multi-Component Heterogeneous Learning Model. <i>Acta Chimica Sinica</i> , 2022, 80, 714.	1.4	3
56	Amine-Anchored Aromatic Self-Assembled Monolayer Junction: Structure and Electric Transport Properties. <i>Langmuir</i> , 2021, 37, 12223-12233.	3.5	2
57	A single level tunneling model for molecular junctions: evaluating the simulation methods. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 11958-11966.	2.8	2
58	First-principles study on the structure and optical spectroscopy of the redox-active center of blue copper proteins. <i>Chemical Physics</i> , 2020, 537, 110859.	1.9	1
59	Sequence modulation of tunneling barrier and charge transport across histidine doped oligo-alanine molecular junctions. <i>Chinese Chemical Letters</i> , 2021, 32, 3782-3786.	9.0	1