

# Wen-wu Xu

## List of Publications by Year in descending order

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46  
papers

1,270  
citations

361413

20  
h-index

361022

35  
g-index

47  
all docs

47  
docs citations

47  
times ranked

983  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Near-Infrared-Emissive Alkynyl-Protected Au <sub>24</sub> Nanocluster. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9683-9686.	13.8	152
2	A grand unified model for liganded gold clusters. <i>Nature Communications</i> , 2016, 7, 13574.	12.8	148
3	Application of Electronic Counting Rules for Ligand-Protected Gold Nanoclusters. <i>Accounts of Chemical Research</i> , 2018, 51, 2739-2747.	15.6	105
4	De novo design of Au <sub>36</sub> (SR) <sub>24</sub> nanoclusters. <i>Nature Communications</i> , 2020, 11, 3349.	12.8	54
5	Unraveling a generic growth pattern in structure evolution of thiolate-protected gold nanoclusters. <i>Nanoscale</i> , 2016, 8, 7396-7401.	5.6	51
6	Van der Waals interfacial reconstruction in monolayer transition-metal dichalcogenides and gold heterojunctions. <i>Nature Communications</i> , 2020, 11, 1011.	12.8	47
7	A Homoleptic Alkynyl-Ligated [Au <sub>13</sub> Ag <sub>16</sub> L <sub>24</sub> ] <sup>3+</sup> Cluster as a Catalytically Active Eight-Electron Superatom. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 970-975.	13.8	43
8	Unraveling structures of protection ligands on gold nanoparticle Au <sub>68</sub> (SH) <sub>32</sub> . <i>Science Advances</i> , 2015, 1, e1400211.	10.3	41
9	Enforced Tubular Assembly of Electronically Different Hexakis( <i>m</i> -Phenylene Ethynylene) Macrocycles: Persistent Columnar Stacking Driven by Multiple Hydrogen-Bonding Interactions. <i>Journal of the American Chemical Society</i> , 2017, 139, 15950-15957.	13.7	39
10	The structural isomerism in gold nanoclusters. <i>Nanoscale</i> , 2018, 10, 9476-9483.	5.6	37
11	Two-Dimensional Gold Sulfide Monolayers with Direct Band Gap and Ultrahigh Electron Mobility. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3773-3778.	4.6	34
12	Tailoring optical and photocatalytic properties by single-Ag-atom exchange in Au <sub>13</sub> Ag <sub>12</sub> (PPh <sub>3</sub> ) <sub>10</sub> Cl <sub>8</sub> nanoclusters. <i>Nano Research</i> , 2022, 15, 2971-2976.	10.4	34
13	Atomically Precise Copper Cluster with Intensely Near-Infrared Luminescence and Its Mechanism. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4891-4896.	4.6	33
14	Unraveling the Atomic Structures of the Au <sub>68</sub> (SR) <sub>34</sub> Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015, 119, 14224-14229.	3.1	29
15	Cd-driven surface reconstruction and photodynamics in gold nanoclusters. <i>Chemical Science</i> , 2021, 12, 3290-3294.	7.4	29
16	Synergistic Effects of Ternary PdO@CeO <sub>2</sub> @OMS-2 Catalyst Afford High Catalytic Performance and Stability in the Reduction of NO with CO. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 622-630.	8.0	28
17	Au <sub>6</sub> S <sub>2</sub> monolayer sheets: metallic and semiconducting polymorphs. <i>Materials Horizons</i> , 2017, 4, 1085-1091.	12.2	26
18	Au <sub>13</sub> (8e): A secondary block for describing a special group of liganded gold clusters containing icosahedral Au <sub>13</sub> motifs. <i>Chemical Physics Letters</i> , 2017, 675, 35-39.	2.6	25

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19	Efficient Photoexcited Charge Separation at the Interface of a Novel 0D/2D Heterojunction: A Time-Dependent Ultrafast Dynamic Study. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2312-2319.	4.6	23
20	Understanding the Chemical Insights of Staple Motifs of Thiolate-Protected Gold Nanoclusters. <i>Small</i> , 2021, 17, e2001836.	10.0	19
21	Ring Model for Understanding How Interfacial Interaction Dictates the Structures of Protection Motifs and Gold Cores in Thiolate-Protected Gold Nanoclusters. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3006-3013.	4.6	17
22	Medium-sized Au <sub>40</sub> (SR) <sub>24</sub> and Au <sub>52</sub> (SR) <sub>32</sub> nanoclusters with distinct gold-kernel structures and spectroscopic features. <i>Nanoscale</i> , 2016, 8, 1299-1304.	5.6	16
23	Modulation of the Double-Helical Cores: A New Strategy for Structural Predictions of Thiolate-Protected Gold Nanoclusters. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 536-540.	4.6	16
24	Au <sub>3</sub> ( $\frac{1}{4}$ SR) <sub>3</sub> (Oe) elementary block: new insights into ligated gold clusters with $\frac{1}{4}$ SR-sulfido motifs. <i>Nanoscale</i> , 2017, 9, 8990-8996.	5.6	15
25	Insights into the effect of surface coordination on the structure and properties of Au <sub>13</sub> Cu <sub>2</sub> nanoclusters. <i>Nanoscale</i> , 2019, 11, 19393-19397.	5.6	15
26	Two-dimensional growth mode of thiolate-protected gold nanoclusters Au <sub>28+4n</sub> (SR) <sub>20+2n</sub> ( $n = 0-8$ ): compared with their one-dimensional growth mode. <i>Nanoscale</i> , 2020, 12, 20677-20683.	5.6	15
27	Two-dimensional monolayer salt nanostructures can spontaneously aggregate rather than dissolve in dilute aqueous solutions. <i>Nature Communications</i> , 2021, 12, 5602.	12.8	12
28	Two-Dimensional AuMX <sub>2</sub> (M = Al, Ga, In; X = S, Se) Monolayers Featuring Intracrystalline Auophilic Interactions with Novel Electronic and Optical Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 16739-16746.	8.0	11
29	[Au <sub>7</sub> (SR) <sub>7</sub> ] Ring as a New Type of Protection Ligand in a New Atomic Structure of Au <sub>15</sub> (SR) <sub>13</sub> Nanocluster. <i>Journal of Physical Chemistry A</i> , 2021, 125, 5933-5938.	2.5	11
30	Multiturn Hollow Helices: Synthesis and Folding of Long Aromatic Oligoamides. <i>Organic Letters</i> , 2020, 22, 6938-6942.	4.6	10
31	Chiral Au <sub>22</sub> (SR) <sub>17</sub> <sup>+</sup> : a new ligand-binding strategy for structural prediction of thiolate-protected gold nanocluster. <i>Chemical Communications</i> , 2020, 56, 2995-2998.	4.1	10
32	Atomic structure of a seed-sized gold nanoprism. <i>Nature Communications</i> , 2022, 13, 1235.	12.8	9
33	Au <sub>11</sub> Ag <sub>6</sub> nanocluster: Controllable preparation, structural determination, and optical property investigation. <i>Journal of Chemical Physics</i> , 2021, 154, 184302.	3.0	8
34	Correspondence: Reply to "On the bonding in ligand-protected gold clusters". <i>Nature Communications</i> , 2017, 8, 1351.	12.8	7
35	New structural insights into the stability of Au <sub>22</sub> (SR) <sub>16</sub> nanocluster under ring model guidance. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 15920-15924.	2.8	7
36	Structural predictions of thiolate-protected gold nanoclusters <i>via</i> the redistribution of Au-S staple motifs on known cores. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 16624-16629.	2.8	6

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37	A Homoleptic Alkynyl-Ligated [Au <sub>13</sub> Ag <sub>16</sub> L <sub>24</sub> ] 3 <sup>+</sup> Cluster as a Catalytically Active Eight-Electron Superatom. <i>Angewandte Chemie</i> , 2021, 133, 983-988.	2.0	6
38	Structural Transformations from Thiolate-Protected Gold Nanoclusters to Au(I)-S Complexes by Introducing Three-Coordinated 1/3-Sulfido and Four-Coordinated 1/4-Sulfido Motifs. <i>Journal of Physical Chemistry C</i> , 2020, 124, 16166-16170.	3.1	5
39	Medium-Sized Au <sub>58</sub> (SR) <sub>30</sub> : A New Chiral Structure Evolving from Crystallized Au <sub>40</sub> (SR) <sub>24</sub> and Au <sub>49</sub> (SR) <sub>27</sub> . <i>Journal of Physical Chemistry C</i> , 2020, 124, 9077-9081.	3.1	5
40	An insight, at the atomic level, into the intramolecular metallophilic interaction in nanoclusters. <i>Chemical Communications</i> , 2022, 58, 5092-5095.	4.1	5
41	Toward Understanding the Correlation between the Charge States and the Core Structures in Thiolate-Protected Gold Nanoclusters. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5387-5393.	4.6	5
42	Application of grand unified model and ring model in understanding the isomeric structures of Au <sub>28</sub> (SR) <sub>20</sub> nanoclusters. <i>Chemical Physics Letters</i> , 2021, 785, 139133.	2.6	4
43	The alloying-induced electrical conductivity of metal-chalcogenolate nanowires. <i>Chemical Communications</i> , 2021, 57, 8774-8777.	4.1	2
44	Anomalous Phase Behaviors of Monolayer NaCl Aqueous Solutions Induced by Effective Coulombic Interactions within Angstrom-Scale Slits. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 2704-2710.	4.6	2
45	Unraveling the Atomic Structures of 10-Electron (10e) Thiolate-Protected Gold Nanoclusters: Three Au <sub>32</sub> (SR) <sub>22</sub> Isomers, One Au <sub>28</sub> (SR) <sub>18</sub> , and One Au <sub>33</sub> (SR) <sub>23</sub> . <i>ACS Omega</i> , 2021, 6, 10497-10503.	3.5	1
46	Thiolate-Protected Hollow Gold Nanospheres. <i>Wuli Huaxue Xuebao/ Acta Physico-Chimica Sinica</i> , 2018, 34, 770-775.	4.9	1