Xi Kang

List of Publications by Year
in descending order

80 papers	4,066 citations	126708 33 h-index	118652 62 g-index
83 all docs	83 docs citations	83 times ranked	2137 citing authors

#	Article	IF	Citations
1	Symmetry breaking of highly symmetrical nanoclusters for triggering highly optical activity. Fundamental Research, 2024, 4, 63-68.	1.6	4
2	Secondary ligand engineering of nanoclusters: Effects on molecular structures, supramolecular aggregates, and optical properties. Aggregate, 2023, 4, .	5.2	8
3	Surface environment complication makes Ag₂₉ nanoclusters more robust and leads to their unique packing in the supracrystal lattice. Chemical Science, 2022, 13, 1382-1389.	3.7	13
4	An insight, at the atomic level, into the intramolecular metallophilic interaction in nanoclusters. Chemical Communications, 2022, 58, 5092-5095.	2.2	5
5	Optical Activity from Anisotropic-Nanocluster-Assembled Supercrystals in Achiral Crystallographic Point Groups. Journal of the American Chemical Society, 2022, 144, 4845-4852.	6.6	21
6	Ligand Modification of Au₂₅ Nanoclusters for Near-Infrared Photocatalytic Oxidative Functionalization. Journal of the American Chemical Society, 2022, 144, 3787-3792.	6.6	45
7	Fluorescence or Phosphorescence? The Metallic Composition of the Nanocluster Kernel Does Matter. Angewandte Chemie, 2022, 134, .	1.6	3
8	Fluorescence or Phosphorescence? The Metallic Composition of the Nanocluster Kernel Does Matter. Angewandte Chemie - International Edition, 2022, 61, .	7.2	32
9	[Pt₁Ag₃₇(SAdm)₂₁(Dppp)₃Cl₆]²⁺: intercluster transformation and photochemical properties. Inorganic Chemistry Frontiers, 2022, 9, 3907-3914.	3.0	6
10	Alloy nanoclusters-synthesis methods and structural evaluation. , 2022, , 349-384.		1
11	Hierarchical structural complexity in atomically precise nanocluster frameworks. National Science Review, 2021, 8, nwaa077.	4.6	38
12	Structural Isomerism in Atomically Precise Nanoclusters. Chemistry of Materials, 2021, 33, 39-62.	3.2	42
13	Controlling the Crystallographic Packing Modes of Pt1Ag28 Nanoclusters: Effects on the Optical Properties and Nitrogen Adsorptionâ€“Desorption Performances. Inorganic Chemistry, 2021, 60, 4198-4206.	1.9	9
14	An insight, at the atomic level, into the polarization effect in controlling the morphology of metal nanoclusters. Chemical Science, 2021, 12, 11080-11088.	3.7	5
15	Structural determination of a metastable Ag₂₇ nanocluster and its transformations into Ag₈ and Ag₂₉ nanoclusters. Inorganic Chemistry Frontiers, 2021, 8, 4407-4414.	3.0	13
16	Cocrystallization-driven stabilization of metastable nanoclusters: a case study of Pd₁Au₉. Nanoscale, 2021, 13, 7694-7699.	2.8	9
17	Dynamic Metal Exchange between a Metalloid Silver Cluster and Silver(I) Thiolate. Inorganic Chemistry, 2021, 60, 3037-3045.	1.9	10
18	Interdependence between nanoclusters AuAg24 and Au2Ag41. Nature Communications, 2021, 12, 778.	5.8	16

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19	Ag₄₈ and Ag₅₀ Nanoclusters: Toward Active-Site Tailoring of Nanocluster Surface Structures. Inorganic Chemistry, 2021, 60, 5931-5936.	1.9	11
20	Au11Ag6 nanocluster: Controllable preparation, structural determination, and optical property investigation. Journal of Chemical Physics, 2021, 154, 184302.	1.2	8
21	[Au₁₆Ag₄₃H₁₂(SPhCl₂)₃₄]^{5â€“}: An Auâ€“Ag Alloy Nanocluster with 12 Hydrides and Its Enlightenment on Nanocluster Structural Evolution. Inorganic Chemistry, 2021, 60, 11640-11647.	1.9	11
22	Aggregation of Surface Structure Induced Photoluminescence Enhancement in Atomically Precise Nanoclusters. CCS Chemistry, 2021, 3, 1929-1939.	4.6	6
23	Structure Determination of the Cl-Enriched [Ag₅₂(SAdm)₃₁Cl₁₃]²⁺ Nanocluster. Inorganic Chemistry, 2021, 60, 14803-14809.	1.9	1
24	Reversible transformation between Au₁₄Ag₈ and Au₁₄Ag₄ nanoclusters. Nanoscale, 2021, 13, 17162-17167.	2.8	6
25	Spherical Nucleic Acids for Topical Treatment of Hyperpigmentation. Journal of the American Chemical Society, 2021, 143, 1296-1300.	6.6	24
26	New atomically precise M1Ag21 (M = Au/Ag) nanoclusters as excellent oxygen reduction reaction catalysts. Chemical Science, 2021, 12, 3660-3667.	3.7	22
27	Ligand Effects on Intramolecular Configuration, Intermolecular Packing, and Optical Properties of Metal Nanoclusters. Nanomaterials, 2021, 11, 2655.	1.9	4
28	A reasonable approach for the generation of hollow icosahedral kernels in metal nanoclusters. Nature Communications, 2021, 12, 6186.	5.8	12
29	Photoluminescence of metal nanoclusters. , 2021, , .		0
30	Nanocluster growth <i>via</i> â€œgraft-ontoâ€ effects on geometric structures and optical properties. Chemical Science, 2020, 11, 1691-1697.	3.7	41
31	Threeâ€dimensional Octameric Assembly of Icosahedral M 13 Units in [Au 8 Ag 57 (Dppp) 4 (C 6 H 11 S) 32 Cl 2]Cl and its [Au 8 Ag 55 (Dppp) 4 (C 6 H 11 S) 34] [BPh 4. Angewandte Chemie - International Edition, 2020, 59, 3891-3895.	7.2	21
32	Threeâ€dimensional Octameric Assembly of Icosahedral M 13 Units in [Au 8 Ag 57 (Dppp) 4 (C 6 H 11 S) 32 Cl 2]Cl and its [Au 8 Ag 55 (Dppp) 4 (C 6 H 11 S) 34] [BPh 4. Angewandte Chemie, 2020, 132, 3919-3923.	1.6	7
33	Atomically precise alloy nanoclusters: syntheses, structures, and properties. Chemical Society Reviews, 2020, 49, 6443-6514.	18.7	407
34	Cocrystallization of Atomically Precise Nanoclusters. , 2020, 2, 1303-1314.		29
35	Self-Assembled DNAâ€“PEG Bottlebrushes Enhance Antisense Activity and Pharmacokinetics of Oligonucleotides. ACS Applied Materials & Interfaces, 2020, 12, 45830-45837.	4.0	20
36	Controlling the Phosphine Ligands of Pt1Ag28(S-Adm)18(PR3)4 Nanoclusters. Inorganic Chemistry, 2020, 59, 8736-8743.	1.9	14

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37	Azide-Functionalized Nanoclusters via a Ligand-Induced Rearrangement. Chemistry of Materials, 2020, 32, 6736-6743.	3.2	6
38	Total Structure Determination of the Pt1 Ag9 [P(Ph-F)3]7 Cl3 Nanocluster. European Journal of Inorganic Chemistry, 2020, 2020, 590-594.	1.0	8
39	Different Types of Ligand Exchange Induced by Au Substitution in a Maintained Nanocluster Template. Inorganic Chemistry, 2020, 59, 1675-1681.	1.9	16
40	Rendering hydrophobic nanoclusters water-soluble and biocompatible. Chemical Science, 2020, 11, 4808-4816.	3.7	18
41	Heterogeneous metal alloy engineering: embryonic growth of M₁₃icosahedra in Ag-based alloy superatomic nanoclusters. Chemical Communications, 2020, 56, 14203-14206.	2.2	7
42	Reversible nanocluster structure transformation between face-centered cubic and icosahedral isomers. Chemical Science, 2019, 10, 8685-8693.	3.7	65
43	Free Valence Electron Centralization Strategy for Preparing Ultrastable Nanoclusters and Their Catalytic Application. Inorganic Chemistry, 2019, 58, 11000-11009.	1.9	56
44	Metal synergistic effect on cluster optical properties: based on Ag₂₅ series nanoclusters. Dalton Transactions, 2019, 48, 13190-13196.	1.6	21
45	Metal Nanoclusters Stabilized by Selenol Ligands. Small, 2019, 15, e1902703.	5.2	48
46	Rational construction of a library of M ₂₉ nanoclusters from monometallic to tetrametallic. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 18834-18840.	3.3	86
47	Light-Induced Size-Growth of Atomically Precise Nanoclusters. Langmuir, 2019, 35, 12350-12355.	1.6	25
48	Gram-Scale Preparation of Stable Hydride M@Cu₂₄ (M = Au/Cu) Nanoclusters. Journal of Physical Chemistry Letters, 2019, 10, 6124-6128.	2.1	38
49	Intra-cluster growth meets inter-cluster assembly: The molecular and supramolecular chemistry of atomically precise nanoclusters. Coordination Chemistry Reviews, 2019, 394, 1-38.	9.5	129
50	Capture of Cesium Ions with Nanoclusters: Effects on Inter- and Intramolecular Assembly. Chemistry of Materials, 2019, 31, 4945-4952.	3.2	36
51	Tailoring the photoluminescence of atomically precise nanoclusters. Chemical Society Reviews, 2019, 48, 2422-2457.	18.7	655
52	Isomer Structural Transformation in Auâ€“Cu Alloy Nanoclusters: Water Rippleâ€Like Transfer of Thiol Ligands. Particle and Particle Systems Characterization, 2019, 36, 1800494.	1.2	17
53	Transformation of Atomically Precise Nanoclusters by Ligand-Exchange. Chemistry of Materials, 2019, 31, 9939-9969.	3.2	130
54	Valence self-regulation of sulfur in nanoclusters. Science Advances, 2019, 5, eaax7863.	4.7	24

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55	Isomerism in Auâ€“Ag Alloy Nanoclusters: Structure Determination and Enantioseparation of [Au₉Ag₁₂(SR)₄(dppm)₆X₆]³⁺. Inorganic Chemistry, 2018, 57, 5114-5119.	1.9	45
56	Observation of a new type of aggregation-induced emission in nanoclusters. Chemical Science, 2018, 9, 3062-3068.	3.7	118
57	Aggregationâ€Induced Emission (AIE) in Agâ^'Au Bimetallic Nanocluster. Chemistry - A European Journal, 2018, 24, 3712-3715.	1.7	43
58	Combining the Single-Atom Engineering and Ligand-Exchange Strategies: Obtaining the Single-Heteroatom-Doped Au₁₆Ag₁(S-Adm)₁₃ Nanocluster with Atomically Precise Structure. Inorganic Chemistry, 2018, 57, 335-342.	1.9	43
59	Customizing the Structure, Composition, and Properties of Alloy Nanoclusters by Metal Exchange. Accounts of Chemical Research, 2018, 51, 2784-2792.	7.6	175
60	Simultaneous hetero-atom doping and foreign-thiolate exchange on the Au₂₅(SR)₁₈ nanocluster. Dalton Transactions, 2018, 47, 13766-13770.	1.6	11
61	Au₂₅(SR)₁₈: the captain of the great nanocluster ship. Nanoscale, 2018, 10, 10758-10834.	2.8	253
62	Au₁₅Ag₃(SPhMe₂)₁₄ Nanoclusters â€“ Crystal Structure and Insights into Ligandâ€Induced Variation. European Journal of Inorganic Chemistry, 2017, 2017, 1414-1419.	1.0	34
63	Modulating photo-luminescence of Au₂Cu₆ nanoclusters via ligand-engineering. RSC Advances, 2017, 7, 28606-28609.	1.7	35
64	Molecular-like Transformation from PhSe-Protected Au₂₅ to Au₂₃ Nanocluster and Its Application. Chemistry of Materials, 2017, 29, 3055-3061.	3.2	34
65	The tetrahedral structure and luminescence properties of Bi-metallic Pt₁Ag₂₈(SR)₁₈(PPh₃)₄ nanocluster. Chemical Science, 2017, 8, 2581-2587.	3.7	105
66	De-assembly of assembled Pt₁Ag₁₂ units: tailoring the photoluminescence of atomically precise nanoclusters. Chemical Communications, 2017, 53, 12564-12567.	2.2	37
67	Thiol-Induced Synthesis of Phosphine-Protected Gold Nanoclusters with Atomic Precision and Controlling the Structure by Ligand/Metal Engineering. Inorganic Chemistry, 2017, 56, 11151-11159.	1.9	40
68	Synthesis and Structure of Self-Assembled Pd₂Au₂₃(PPh₃)₁₀Br₇ Nanocluster: Exploiting Factors That Promote Assembly of Icosahedral Nano-Building-Blocks. Chemistry of Materials, 2017, 29, 6856-6862.	3.2	40
69	Theoretical investigations on the structureâ€"property relationships of Au₁₃and Au_xM_{13â^'x}nanoclusters. RSC Advances, 2017, 7, 51538-51545.	1.7	5
70	Bimetallic Au₂Cu₆ Nanoclusters: Strong Luminescence Induced by the Aggregation of Copper(I) Complexes with Gold(0) Species. Angewandte Chemie - International Edition, 2016, 55, 3611-3614.	7.2	200
71	Heteroatom Effects on the Optical and Electrochemical Properties of Ag₂₅(SR)₁₈ and Its Dopants. ChemElectroChem, 2016, 3, 1261-1265.	1.7	42
72	Bimetallic Au₂Cu₆ Nanoclusters: Strong Luminescence Induced by the Aggregation of Copper(I) Complexes with Gold(0) Species. Angewandte Chemie, 2016, 128, 3675-3678.	1.6	44

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73	Titelbild: Bimetallic Au₂Cu₆ Nanoclusters: Strong Luminescence Induced by the Aggregation of Copper(I) Complexes with Gold(0) Species (Angew. Chem. 11/2016). Angewandte Chemie, 2016, 128, 3577-3577.	1.6	0
74	How a Single Electron Affects the Properties of the â€œNon-Superatomâ€• Au₂₅ Nanoclusters. Chemistry of Materials, 2016, 28, 2609-2617.	3.2	56
75	Shapeâ€Controlled Synthesis of Trimetallic Nanoclusters: Structure Elucidation and Properties Investigation. Chemistry - A European Journal, 2016, 22, 17145-17150.	1.7	67
76	Size-confined growth of atom-precise nanoclusters in metalâ€"organic frameworks and their catalytic applications. Nanoscale, 2016, 8, 1407-1412.	2.8	74
77	The Magic Au₆₀ Nanocluster: A New Clusterâ€Assembled Material with Five Au₁₃ Building Blocks. Angewandte Chemie - International Edition, 2015, 54, 8430-8434.	7.2	139
78	A New Crystal Structure of Au₃₆ with a Au₁₄ Kernel Cocapped by Thiolate and Chloride. Journal of the American Chemical Society, 2015, 137, 10033-10035.	6.6	54
79	Ligand-induced change of the crystal structure and enhanced stability of the Au₁₁ nanocluster. RSC Advances, 2015, 5, 66879-66885.	1.7	24
80	Fabrication of a Family of Atomically Precise Silver Nanoclusters via Dual-Level Kinetical Control. Chemical Science, 0, , .	3.7	8