

Xun Yuan

List of Publications by Year in descending order

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79
papers

8,533
citations

57758

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docs citations

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times ranked

7460
citing authors

#	ARTICLE	IF	CITATIONS
1	From Aggregation-Induced Emission of Au(I)–Thiolate Complexes to Ultrabright Au(0)@Au(I)–Thiolate Core–Shell Nanoclusters. <i>Journal of the American Chemical Society</i> , 2012, 134, 16662-16670.	13.7	1,340
2	Toward Total Synthesis of Thiolate-Protected Metal Nanoclusters. <i>Accounts of Chemical Research</i> , 2018, 51, 1338-1348.	15.6	422
3	Synthesis of Highly Fluorescent Metal (Ag, Au, Pt, and Cu) Nanoclusters by Electrostatically Induced Reversible Phase Transfer. <i>ACS Nano</i> , 2011, 5, 8800-8808.	14.6	362
4	Glutathione-Protected Silver Nanoclusters as Cysteine-Selective Fluorometric and Colorimetric Probe. <i>Analytical Chemistry</i> , 2013, 85, 1913-1919.	6.5	312
5	Hierarchical porous carbons with high performance for supercapacitor electrodes. <i>Carbon</i> , 2009, 47, 1715-1722.	10.3	303
6	Luminescent Noble Metal Nanoclusters as an Emerging Optical Probe for Sensor Development. <i>Chemistry - an Asian Journal</i> , 2013, 8, 858-871.	3.3	299
7	Atomic–Precision Gold Clusters for NIR–Imaging. <i>Advanced Materials</i> , 2019, 31, e1901015.	21.0	279
8	Balancing the Rate of Cluster Growth and Etching for Gram–Scale Synthesis of Thiolate–Protected Au ₂₅ Nanoclusters with Atomic Precision. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 4623-4627.	13.8	276
9	Highly luminescent silver nanoclusters with tunable emissions: cyclic reduction–decomposition synthesis and antimicrobial properties. <i>NPG Asia Materials</i> , 2013, 5, e39-e39.	7.9	237
10	Understanding seed-mediated growth of gold nanoclusters at molecular level. <i>Nature Communications</i> , 2017, 8, 927.	12.8	228
11	Ultrasmall Glutathione-Protected Gold Nanoclusters as Next Generation Radiotherapy Sensitizers with High Tumor Uptake and High Renal Clearance. <i>Scientific Reports</i> , 2015, 5, 8669.	3.3	212
12	Lighting up thiolated Au@Ag nanoclusters via aggregation-induced emission. <i>Nanoscale</i> , 2014, 6, 157-161.	5.6	186
13	Engineering gold-based radiosensitizers for cancer radiotherapy. <i>Materials Horizons</i> , 2017, 4, 817-831.	12.2	173
14	Engineering Functional Metal Materials at the Atomic Level. <i>Advanced Materials</i> , 2018, 30, e1802751.	21.0	170
15	The influence of lysosomal stability of silver nanomaterials on their toxicity to human cells. <i>Biomaterials</i> , 2014, 35, 6707-6715.	11.4	158
16	Aqueous dye adsorption on ordered mesoporous carbons. <i>Journal of Colloid and Interface Science</i> , 2007, 310, 83-89.	9.4	154
17	The support effect on the size and catalytic activity of thiolated Au ₂₅ nanoclusters as precatalysts. <i>Nanoscale</i> , 2015, 7, 6325-6333.	5.6	142
18	Ultrasmall Ag ⁺ -rich nanoclusters as highly efficient nanoreservoirs for bacterial killing. <i>Nano Research</i> , 2014, 7, 301-307.	10.4	139

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19	Introducing Amphiphilicity to Noble Metal Nanoclusters via Phase-Transfer Driven Ion-Pairing Reaction. <i>Journal of the American Chemical Society</i> , 2015, 137, 2128-2136.	13.7	139
20	Recent advances in the synthesis, characterization, and biomedical applications of ultrasmall thiolated silver nanoclusters. <i>RSC Advances</i> , 2014, 4, 60581-60596.	3.6	128
21	Boiling water synthesis of ultrastable thiolated silver nanoclusters with aggregation-induced emission. <i>Chemical Communications</i> , 2015, 51, 15165-15168.	4.1	128
22	Catalytically potent and selective clusterzymes for modulation of neuroinflammation through single-atom substitutions. <i>Nature Communications</i> , 2021, 12, 114.	12.8	123
23	Highly luminescent Ag ⁺ nanoclusters for Hg ²⁺ ion detection. <i>Nanoscale</i> , 2012, 4, 1968.	5.6	118
24	Controlled synthesis of bismuth oxychloride-carbon nanofiber hybrid materials as highly efficient electrodes for rocking-chair capacitive deionization. <i>Chemical Engineering Journal</i> , 2021, 403, 126326.	12.7	112
25	Molecular reactivity of thiolate-protected noble metal nanoclusters: synthesis, self-assembly, and applications. <i>Chemical Science</i> , 2021, 12, 99-127.	7.4	108
26	Novel Theranostic DNA Nanoscaffolds for the Simultaneous Detection and Killing of <i>Escherichia coli</i> and <i>Staphylococcus aureus</i> . <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 21822-21831.	8.0	107
27	Recent Advances in the Synthesis and Applications of Ultrasmall Bimetallic Nanoclusters. <i>Particle and Particle Systems Characterization</i> , 2015, 32, 613-629.	2.3	102
28	Precursor engineering and controlled conversion for the synthesis of monodisperse thiolate-protected metal nanoclusters. <i>Nanoscale</i> , 2013, 5, 4606.	5.6	100
29	Antimicrobial strategies for urinary catheters. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 445-467.	4.0	90
30	Atomic-precision Pt ₆ nanoclusters for enhanced hydrogen electro-oxidation. <i>Nature Communications</i> , 2022, 13, 1596.	12.8	86
31	Counterion-Assisted Shaping of Nanocluster Supracrystals. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 184-189.	13.8	81
32	Engineering luminescent metal nanoclusters for sensing applications. <i>Coordination Chemistry Reviews</i> , 2022, 451, 214268.	18.8	79
33	Insights into the effect of surface ligands on the optical properties of thiolated Au ₂₅ nanoclusters. <i>Chemical Communications</i> , 2016, 52, 5234-5237.	4.1	75
34	Two-Phase Synthesis of Small Thiolate-Protected Au ₁₅ and Au ₁₈ Nanoclusters. <i>Small</i> , 2013, 9, 2696-2701.	10.0	74
35	Real Time Monitoring of the Dynamic Intracluster Diffusion of Single Gold Atoms into Silver Nanoclusters. <i>Journal of the American Chemical Society</i> , 2019, 141, 18977-18983.	13.7	73
36	Fast Synthesis of Thiolated Au ₂₅ Nanoclusters via Protection-Deprotection Method. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2310-2314.	4.6	71

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37	Enhancing stability through ligand-shell engineering: A case study with Au ₂₅ (SR) ₁₈ nanoclusters. Nano Research, 2015, 8, 3488-3495.	10.4	66
38	Shining photocatalysis by gold-based nanomaterials. Nano Energy, 2021, 88, 106306.	16.0	64
39	Capacitive performance of mesoporous carbons derived from the citrates in ionic liquid. Carbon, 2010, 48, 2765-2772.	10.3	59
40	Facile synthesis of water-soluble Au ₂₅ Ag _x nanoclusters protected by mono- and bi-thiolate ligands. Chemical Communications, 2014, 50, 7459.	4.1	59
41	Rocking-chair capacitive deionization with flow-through electrodes. Journal of Materials Chemistry A, 2020, 8, 8476-8484.	10.3	58
42	Silver Doping-Induced Luminescence Enhancement and Redshift of Gold Nanoclusters with Aggregation-Induced Emission. Chemistry - an Asian Journal, 2019, 14, 765-769.	3.3	55
43	Assembly of Nanoions via Electrostatic Interactions: Ion-Like Behavior of Charged Noble Metal Nanoclusters. Scientific Reports, 2014, 4, 3848.	3.3	47
44	Embedding ultrasmall Ag nanoclusters in Luria-Bertani extract via light irradiation for enhanced antibacterial activity. Nano Research, 2020, 13, 203-208.	10.4	46
45	In Situ Synthesis of Bismuth Nanoclusters within Carbon NanoBundles from Metal-Organic Framework for Chloride-Driven Electrochemical Deionization. Advanced Functional Materials, 2022, 32, .	14.9	46
46	Mn ₂ O ₃ nanoflower decorated electrospun carbon nanofibers for efficient hybrid capacitive deionization. Desalination, 2020, 494, 114665.	8.2	44
47	MoC nanoparticle-embedded carbon nanofiber aerogels as flow-through electrodes for highly efficient pseudocapacitive deionization. Journal of Materials Chemistry A, 2020, 8, 1443-1450.	10.3	43
48	Preparation and application of mesoporous Fe/carbon composites as a drug carrier. Microporous and Mesoporous Materials, 2009, 117, 678-684.	4.4	40
49	Effect of ligand structure on the size control of mono- and bi-thiolate-protected silver nanoclusters. Chemical Communications, 2017, 53, 9697-9700.	4.1	40
50	Decorating Pt@cyclodextrin nanoclusters on C ₃ N ₄ /MXene for boosting the photocatalytic H ₂ O ₂ production. Journal of Materials Chemistry A, 2021, 9, 6872-6880.	10.3	39
51	MoS ₂ nanoflakes-coated electrospun carbon nanofibers for rocking-chair-capacitive deionization. Desalination, 2021, 520, 115376.	8.2	36
52	The <i>in situ</i> synthesis of silver nanoclusters inside a bacterial cellulose hydrogel for antibacterial applications. Journal of Materials Chemistry B, 2020, 8, 4846-4850.	5.8	35
53	Heating or Cooling: Temperature Effects on the Synthesis of Atomically Precise Gold Nanoclusters. Journal of Physical Chemistry C, 2017, 121, 10743-10751.	3.1	32
54	Traveling through the Desalting Column Spontaneously Transforms Thiolated Ag Nanoclusters from Nonluminescent to Highly Luminescent. Journal of Physical Chemistry Letters, 2013, 4, 1811-1815.	4.6	31

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55	Water-soluble metal nanoclusters: recent advances in molecular-level exploration and biomedical applications. Dalton Transactions, 2019, 48, 10385-10392.	3.3	30
56	Adsorption of bulky molecules of nonylphenol ethoxylate on ordered mesoporous carbons. Journal of Colloid and Interface Science, 2008, 322, 558-565.	9.4	29
57	Miscible Solvent-Assisted Two-Phase Synthesis of Monolayer-Ligand-Protected Metal Nanoclusters with Various Sizes. Advanced Materials, 2020, 32, e1906063.	21.0	29
58	MnO ₂ decorated porous carbon derived from Enteromorpha prolifera as flow-through electrode for dual-mode capacitive deionization. Desalination, 2021, 504, 114977.	8.2	29
59	Mesoporous carbons derived from citrates for use in electrochemical capacitors. New Carbon Materials, 2010, 25, 370-375.	6.1	26
60	Highly Luminescent AuAg Nanoclusters with Aggregation-Induced Emission for High-Performance White LED Application. ACS Sustainable Chemistry and Engineering, 2020, 8, 15336-15343.	6.7	26
61	The beauty of binary phases: A facile strategy for synthesis, processing, functionalization, and application of ultrasmall metal nanoclusters. Coordination Chemistry Reviews, 2021, 438, 213900.	18.8	24
62	Injectable Ag nanoclusters-based hydrogel for wound healing via eliminating bacterial infection and promoting tissue regeneration. Chemical Engineering Journal, 2021, 420, 127589.	12.7	23
63	Solvent Controls the Formation of Au ₂₉ (SR) ₂₀ Nanoclusters in the CO Reduction Method. Particle and Particle Systems Characterization, 2014, 31, 652-656.	2.3	22
64	Layered double hydroxide coated electrospun carbon nanofibers as the chloride capturing electrode for ultrafast electrochemical deionization. Journal of Colloid and Interface Science, 2022, 609, 289-296.	9.4	20
65	From understanding the roles of tetraoctylammonium bromide in the two-phase Brust-Schiffrin method to tuning the size of gold nanoclusters. Nanoscale, 2020, 12, 19855-19860.	5.6	18
66	Marrying luminescent Au nanoclusters to TiO ₂ for visible-light-driven antibacterial application. Nanoscale, 2021, 13, 18996-19003.	5.6	18
67	Conjugating AIE-featured AuAg nanoclusters with highly luminescent carbon dots for improved visible-light-driven antibacterial activity. Nanoscale, 2022, 14, 8183-8191.	5.6	17
68	Bismuth oxychloride nanostructure coated carbon sponge as flow-through electrode for highly efficient rocking-chair capacitive deionization. Journal of Colloid and Interface Science, 2022, 608, 2752-2759.	9.4	16
69	Morphological control in synthesis of cobalt basic carbonate nanorods assembly. Materials Letters, 2008, 62, 1396-1399.	2.6	15
70	Effect of subtle changes of isomeric ligands on the synthesis of atomically precise water-soluble gold nanoclusters. Nanoscale, 2020, 12, 6449-6455.	5.6	14
71	Ligand engineering of Au nanoclusters with multifunctional metalloporphyrins for photocatalytic H ₂ O ₂ production. Journal of Materials Chemistry A, 2022, 10, 8371-8377.	10.3	13
72	Quaternary ammonium cellulose promoted synthesis of hollow nano-sized ZSM-5 zeolite as stable catalyst for benzene alkylation with ethanol. Journal of Materials Science, 2021, 56, 8461-8478.	3.7	11

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73	Preparation of polyaniline-coated mesoporous carbon and its enhanced electrochemical properties. <i>Polymers for Advanced Technologies</i> , 2009, 20, 1179-1182.	3.2	10
74	Metal Nanoclusters: Engineering Functional Metal Materials at the Atomic Level (<i>Adv. Mater.</i> 47/2018). <i>Advanced Materials</i> , 2018, 30, 1870358.	21.0	10
75	Dynamic Metal Exchange between a Metalloid Silver Cluster and Silver(I) Thiolate. <i>Inorganic Chemistry</i> , 2021, 60, 3037-3045.	4.0	10
76	Mechanistic insights into the two-phase synthesis of heteroleptic Au nanoclusters. <i>Nanoscale</i> , 2021, 13, 3512-3518.	5.6	8
77	In-situ grown Ag on magnetic halloysite nanotubes in scaffolds: Antibacterial, biocompatibility and mechanical properties. <i>Ceramics International</i> , 2021, 47, 32756-32765.	4.8	6
78	Recent Advances of Biomass Derived Electrode Materials for Capacitive Deionization. <i>Current Nanoscience</i> , 2022, 18, 2-17.	1.2	3
79	Engineering Durable Superhydrophobic Photocatalyst for Oil-Water Separation and Degradation of Chemical Pollutants. <i>ChemistrySelect</i> , 2021, 6, 7271-7277.	1.5	3