

Ahmed A Mohamed

List of Publications by Year in descending order

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100
papers

3,329
citations

126907

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155660

55
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106
all docs

106
docs citations

106
times ranked

3072
citing authors

#	ARTICLE	IF	CITATIONS
1	{Ti[Au(C6Cl5)2]} _n : A Vapochromic Complex. Journal of the American Chemical Society, 2003, 125, 2022-2023.	13.7	207
2	The Role of F-Centers in Catalysis by Au Supported on MgO. Journal of the American Chemical Society, 2005, 127, 1604-1605.	13.7	173
3	Advances in the coordination chemistry of nitrogen ligand complexes of coinage metals. Coordination Chemistry Reviews, 2010, 254, 1918-1947.	18.8	154
4	Functionalization of nanomaterials with aryldiazonium salts. Advances in Colloid and Interface Science, 2015, 225, 16-36.	14.7	139
5	Syntheses, Structure, and Photoluminescence Properties of the 1-Dimensional Chain Compounds [(TPA) ₂ Au][Au(CN) ₂] and (TPA)AuCl (TPA = 1,3,5-Triaza-7-phosphaadamantane). Inorganic Chemistry, 2002, 41, 6274-6280.	4.0	135
6	Photophysics of supramolecular binary stacks consisting of electron-rich trinuclear Au(I) complexes and organic electrophiles. Coordination Chemistry Reviews, 2005, 249, 1372-1381.	18.8	111
7	Vapochromic Behavior of {Ag ₂ (Et ₂ O) ₂ [Au(C ₆ F ₅) ₂] ₂ } _n with Volatile Organic Compounds. Inorganic Chemistry, 2008, 47, 8069-8076.	11.0	104
8	CYCLIC TRINUCLEAR GOLD(I) COMPOUNDS: SYNTHESIS, STRUCTURES AND SUPRAMOLECULAR ACID-BASE π -STACKS. Comments on Inorganic Chemistry, 2003, 24, 253-280.	5.2	107
9	Dinuclear Gold(I) Dithiophosphonate Complexes: Synthesis, Luminescent Properties, and X-ray Crystal Structures of [Au ₂ PR(OR) ₂] ₂ (R = Ph, R = C ₅ H ₉ ; R = 4-C ₆ H ₄ OMe, R = (1S,5R,2S)-(âˆ“)-Menthyl; R = Fc, R =) Tj ETQ1 1 0	11.0	104
10	A Detailed Study of the Vapochromic Behavior of {Ti[Au(C6Cl5)2]} _n . Inorganic Chemistry, 2004, 43, 3573-3581.	4.0	104
11	Unsupported intermolecular argentophilic interaction in the dimer of trinuclear silver(I) 3,5-diphenylpyrazolates. Inorganica Chimica Acta, 2005, 358, 1657-1662.	2.4	83
12	Mixed-Metal Triangular Trinuclear Complexes: Dimers of Gold-Silver Mixed-Metal Complexes from Gold(I) Carbeniates and Silver(I) 3,5-Diphenylpyrazolates. Journal of the American Chemical Society, 2005, 127, 5012-5013.	13.7	67
13	Structures and properties of gold(I) complexes of interest in biochemical applications. Coordination Chemistry Reviews, 2009, 253, 1661-1669.	18.8	62
14	Synthesis and X-ray structures of silver and gold guanidinate-like complexes. A Au(ii) complex with a 2.47 Å...Au-Au distance. Chemical Communications, 2003, , 2882-2883.	4.1	60
15	External heavy-atom effect of gold in a supramolecular acid-base π stack. Dalton Transactions, 2005, , 2597.	3.3	60
16	Coordination chemistry of gold(II) with amidinate, thiolate and ylide ligands. Coordination Chemistry Reviews, 2010, 254, 1253-1259.	18.8	60
17	Syntheses and Structures of Dinuclear Gold(I) Dithiophosphonate Complexes and the Reaction of the Dithiophosphonate Complexes with Phosphines: Diverse Coordination Types. Inorganic Chemistry, 2003, 42, 5311-5319.	4.0	52
18	Synthesis and X-ray Structures of Dinuclear and Trinuclear Gold(I) and Dinuclear Gold(II) Amidinate Complexes. Inorganic Chemistry, 2005, 44, 166-168.	4.0	52

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19	Novel metallamacrocyclic gold(I) thiolate cluster complex: structure and luminescence of $[\text{Au}_9(\frac{1}{4}\text{-dppm})_4(\frac{1}{4}\text{-p-tc})_6](\text{PF}_6)_3$. <i>Chemical Communications</i> , 2005, , 1575-1577.	4.1	49
20	Gold(I) and Silver(I) Mixed-Metal Trinuclear Complexes: Dimeric Products from the Reaction of Gold(I) Carbenates or Benzylimidazolates with Silver(I) 3,5-Diphenylpyrazolate. <i>Inorganic Chemistry</i> , 2006, 45, 7770-7776.	4.0	48
21	Self-assembly of a High-Nuclearity Chloride-Centered Copper(II) Cluster. Structure and Magnetic Properties of $[\text{Au}(\text{PPh}_3)_2][\text{trans-Cu}_6(\frac{1}{4}\text{-OH})_6(\frac{1}{4}\text{-(3,5-CF}_3)_2\text{pz})_6\text{Cl}]$. <i>Inorganic Chemistry</i> , 2007, 46, 2348-2349.	4.0	46
22	Three-coordinate, luminescent, water-soluble gold(I) phosphine complexes: structural characterization and photoluminescence properties in aqueous solution. <i>Inorganica Chimica Acta</i> , 2003, 352, 31-45.	2.4	45
23	Synthesis, Characterization, and Luminescent Properties of Dinuclear Gold(I) Xanthate Complexes: X-ray Structure of $[\text{Au}_2(\text{nBu-xanthate})_2]$. <i>Inorganic Chemistry</i> , 2004, 43, 3833-3839.	4.0	45
24	Robust Organometallic Gold Nanoparticles. <i>Organometallics</i> , 2014, 33, 439-442.	2.3	44
25	Formation of a Cationic Gold(I) Complex and Disulfide by Oxidation of the Antiarthritic Gold Drug Auranofin. <i>Inorganic Chemistry</i> , 2003, 42, 2203-2205.	4.0	43
26	CO oxidation over Au/TiO ₂ prepared from metal-organic gold complexes. <i>Catalysis Letters</i> , 2006, 111, 15-18.	2.6	42
27	Halide and Nitrite Recognizing Hexanuclear Metallacycle Copper(II) Pyrazolates. <i>Inorganic Chemistry</i> , 2011, 50, 1014-1020.	4.0	42
28	On demand release of ionic silver from gold-silver alloy nanoparticles: fundamental antibacterial mechanisms study. <i>Materials Today Chemistry</i> , 2020, 16, 100237.	3.5	41
29	Electrochemical and Chemical Oxidation of Gold(I) Thiolate Phosphine Complexes: Formation of Gold Clusters and Disulfide. <i>Journal of the American Chemical Society</i> , 1999, 121, 9225-9226.	13.7	40
30	Oxidative Addition of Small Molecules to a Dinuclear Au(I) Amidinate Complex, $\text{Au}_2[(2,6\text{-Me}_2\text{Ph})_2\text{N}_2\text{CH}]_2$. Syntheses and Characterization of Au(II) Amidinate Complexes Including One Which Possesses Au(II) π -Oxygen Bonds. <i>Inorganic Chemistry</i> , 2007, 46, 9692-9699.	4.0	40
31	Dinuclear and Tetranuclear Gold Nitrogen Complexes. Solvent Influences on Oxidation and Nuclearity of Gold Guanidinate Derivatives. <i>Inorganic Chemistry</i> , 2007, 46, 11165-11172.	4.0	38
32	Antimicrobial activity of quaternary ammonium salts: structure-activity relationship. <i>Medicinal Chemistry Research</i> , 2022, 31, 1663-1678.	2.4	37
33	Cluster self-assembly of centered cubes of copper(I) with dialkyldithiophosphate ligands. X-ray structures of $[\text{Cu}_8(\text{DDP})_6(\frac{1}{4}\text{-8-X})]\text{PF}_6$ (DDP=S ₂ P(OiPr) ₂ ; X=Cl or Br) and their relationship to oxide and sulfide centered zinc(II) dialkyldithiophosphates, $[\text{Zn}_4(\text{DDP})_6(\frac{1}{4}\text{-4-S or O})]$. <i>Inorganica Chimica Acta</i> , 2004, 357, 3950-3956.	2.4	35
34	Gold(I) Formamidinate Clusters: The Structure, Luminescence, and Electrochemistry of the Tetranuclear, Base-Free $[\text{Au}_4(\text{ArNC}(\text{H})\text{NAr})_4]$. <i>Journal of Cluster Science</i> , 2003, 14, 253-266.	3.3	33
35	Title is missing!. <i>Journal of Cluster Science</i> , 2003, 14, 61-70.	3.3	31
36	Mercury(II) Cyanide Coordination Polymer with Dinuclear Gold(I) Amidinate. Structure of the 2-D $[\text{Au}_2(2,6\text{-Me}_2\text{-formamidinate})_2] \cdot 2\text{Hg}(\text{CN})_2 \cdot 2\text{THF}$ Complex. <i>Inorganic Chemistry</i> , 2006, 45, 11-13.	4.0	29

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37	Synthesis of water-soluble gold-aryl nanoparticles with distinct catalytic performance in the reduction of the environmental pollutant 4-nitrophenol. <i>Catalysis Science and Technology</i> , 2019, 9, 6059-6071.	4.1	29
38	Tetranuclear Gold(I) Clusters with Nitrogen Donor Ligands: Luminescence and X-Ray Structure of Gold(I) Naphthyl Amidinate Complex. <i>Journal of Cluster Science</i> , 2004, 15, 397-411.	3.3	28
39	Syntheses of Mixed-Ligand Tetranuclear Gold(I)-Nitrogen Clusters by Ligand Exchange Reactions with the Dinuclear Gold(I) Formamidinate Complex Au ₂ (2,6-Me ₂ Ph-form) ₂ . <i>Inorganic Chemistry</i> , 2007, 46, 141-146.	4.0	26
40	Protein-Coated Aryl Modified Gold Nanoparticles for Cellular Uptake Study by Osteosarcoma Cancer Cells. <i>Langmuir</i> , 2020, 36, 11765-11775.	3.5	26
41	Gold-carbon nanoparticles mediated delivery of BSA: Remarkable robustness and hemocompatibility. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 558, 351-358.	4.7	25
42	Perspectives in Inorganic and Bioinorganic Gold Sulfur Chemistry. <i>Comments on Inorganic Chemistry</i> , 2002, 23, 321-334.	5.2	24
43	Gold is going forensic. <i>Gold Bulletin</i> , 2011, 44, 71-77.	2.4	24
44	Synthesis, Characterization, Luminescence, and Electrochemistry of New Tetranuclear Gold(I) Amidinate Clusters: Au ₄ [PhNC(Ph)NPh] ₄ , Au ₄ [PhNC(CH ₃)NPh] ₄ , and Au ₄ [ArNC(H)NAr] ₄ . <i>Journal of Cluster Science</i> , 2007, 18, 630-641.	3.3	23
45	Green and cytocompatible carboxyl modified gold-lysozyme nanoantibacterial for combating multidrug-resistant superbugs. <i>Biomaterials Science</i> , 2019, 7, 5016-5026.	5.4	23
46	Polyaniline coated gold-aryl nanoparticles: Electrochemical synthesis and efficiency in methylene blue dye removal. <i>Synthetic Metals</i> , 2020, 269, 116528.	3.9	23
47	Gold(III) Diazonium Complexes for Electrochemical Reductive Grafting. <i>Inorganic Chemistry</i> , 2012, 51, 5500-5502.	4.0	21
48	Synthesis of gold organometallics at the nanoscale. <i>Journal of Organometallic Chemistry</i> , 2018, 877, 1-11.	1.8	21
49	Diazonium interface chemistry and click polymerization: A novel route for carbon nanotube-polytriazole nanocomposites. <i>Surface and Interface Analysis</i> , 2016, 48, 509-513.	1.8	19
50	Facile synthesis of stable, water soluble, dendron-coated gold nanoparticles. <i>Nanoscale</i> , 2017, 9, 3128-3132.	5.6	19
51	Emerging clay-aryl-gold nanohybrids for efficient electrocatalytic proton reduction. <i>Energy Conversion and Management</i> , 2018, 168, 170-177.	9.2	19
52	Development of Latent Fingerprints via Aryldiazonium Tetrachloroaurate Salts on Copper Surfaces: An XPS Study. <i>Langmuir</i> , 2020, 36, 74-83.	3.5	19
53	Cyclic Voltammetry of Auranofin. <i>Metal-Based Drugs</i> , 1999, 6, 233-238.	3.8	18
54	[$\frac{1}{4}$ -o-Phenylenebis(diphenylphosphine)- μ_2 P ₂] ₂ bis[chlorogold(I)], dppbz(AuCl) ₂ . <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2003, 59, m84-m86.	0.4	18

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55	Structures and luminescence of mononuclear and dinuclear base-stabilized gold(I) pyrazolate complexes. <i>Inorganica Chimica Acta</i> , 2004, 357, 1761-1766.	2.4	18
56	Oxidative Addition of Methyl Iodide to Dinuclear Gold(I) Amidinate Complex: Schmidbauer's Breakthrough Reaction Revisited with Amidinates. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2004, 59, 1480-1482.	0.7	17
57	Fine-Tuning the Luminescence and HOMO-LUMO Energy Levels in Tetranuclear Gold(I) Fluorinated Amidinate Complexes. <i>Inorganic Chemistry</i> , 2012, 51, 2010-2015.	4.0	17
58	Conceptual Developments of Aryldiazonium Salts as Modifiers for Gold Colloids and Surfaces. <i>Langmuir</i> , 2021, 37, 8897-8907.	3.5	17
59	A Silver(I)-Gold(II) Hexanuclear Guanidinate-Benzoate Cluster with Short Au-Au Bonds. <i>Journal of Cluster Science</i> , 2008, 19, 551-559.	3.3	15
60	Mono and Tetranuclear Gold(I) Complexes of Tris(1-benzylimidazole-2-yl)phosphine. <i>Inorganic Chemistry</i> , 2010, 49, 513-518.	4.0	14
61	Synthesis of Diazonium Tetrachloroaurate(III) Precursors for Surface Grafting. <i>Inorganics</i> , 2013, 1, 70-84.	2.7	14
62	Gold-Aryl nanoparticles coated with polyelectrolytes for adsorption and protection of DNA against nuclease degradation. <i>Applied Organometallic Chemistry</i> , 2019, 33, e4803.	3.5	14
63	Efficient synthesis of amino acids capped gold nanoparticles from easily reducible arylidiazonium tetrachloroaurate(III) salts for cellular uptake study. <i>Amino Acids</i> , 2020, 52, 941-953.	2.7	14
64	Physicochemical stability study of protein-benzoic acid complexes using molecular dynamics simulations. <i>Amino Acids</i> , 2020, 52, 1353-1362.	2.7	13
65	Evaluation of diazonium gold(III) salts in forensic chemistry: Latent fingerprint development on metal surfaces. <i>Forensic Chemistry</i> , 2019, 13, 100144.	2.8	12
66	Inhibition of amyloid fibrillation, enzymatic degradation and cytotoxicity of insulin at carboxyl tailored gold-aryl nanoparticles surface. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 586, 124279.	4.7	12
67	Arylated gold nanostars aided SERS study of breast cancer cells. <i>Applied Surface Science</i> , 2022, 583, 152504.	6.1	12
68	Bis(3,5-dimethylpyrazole- η^2)silver(I) nitrate. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2002, 58, m228-m229.	0.4	11
69	Bioinspired Ion Recognition in Hexanuclear Copper Pyrazolate Metallacycles. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 3257-3261.	2.0	11
70	Femtosecond Laser Ablation Synthesis of Aryl Functional Group Substituted Gold Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 2852-2856.	0.9	11
71	Lysozyme and Human Serum Albumin Proteins as Potential Nitric Oxide Cardiovascular Drug Carriers: Theoretical and Experimental Investigation. <i>Journal of Physical Chemistry B</i> , 2021, 125, 7750-7762.	2.6	11
72	Synthesis, Characterization, Luminescence, and Electrochemistry of the Tetranuclear Gold(I) Amidinate Clusters, Precursors to CO Oxidation Catalysts: Au ₄ [(ArNC(H)NAr)] ₄ , 1107-1113.	1.4	10

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73	An Octanuclear Gold(I) Cube with Amidinate Ligands Containing Two Hyper-coordinate Ylide Carbon Atoms. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2009, 64, 1487-1490.	0.7	10
74	Experimental and theoretical review on covalent coupling and elemental doping of carbon nanomaterials for environmental photocatalysis. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2023, 48, 215-256.	12.3	10
75	FRET-based fluorescent probe for drug assay from amino acid@gold-carbon nanoparticles. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 1117-1125.	3.7	8
76	Gold-organic thin films from the reductive grafting of diazonium gold(III) salts. <i>Journal of Electroanalytical Chemistry</i> , 2015, 757, 73-79.	3.8	7
77	Forensic Nanotechnology: Engineering Polyaniline Nanocomposites for Latent Fingerprints Development. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 2865-2872.	0.9	7
78	Diazonium Gold Salts as Novel Surface Modifiers: What Have We Learned So Far?. <i>Surfaces</i> , 2020, 3, 182-196.	2.3	7
79	Exceptionally redox-active precursors in the synthesis of gold core-tin oxide shell nanostructures. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 616, 126266.	4.7	7
80	Oxidative Rearrangement in Gold Organometallics. <i>Organometallics</i> , 2012, 31, 3460-3462.	2.3	6
81	Computational insights into binding mechanism of drugs as potential inhibitors against SARS-CoV-2 targets. <i>Chemical Papers</i> , 2022, 76, 111-121.	2.2	5
82	The Electrochemistry of Gold and Silver Complexes. , 0, , 313-352.		5
83	Gilded Hope for Medicine. <i>Inorganics</i> , 2015, 3, 139-154.	2.7	4
84	Spontaneous redox route for gold-aryl film development of latent fingerprints on nickel coins. <i>Surface and Interface Analysis</i> , 2021, 53, 543-549.	1.8	4
85	Tryptophan capped gold-aryl nanoparticles for energy transfer study with SARS-CoV-2 spike proteins. <i>Soft Materials</i> , 2022, 20, 405-413.	1.7	4
86	Structural and optical properties of 1, 4, 8, 11, 15, 18, 22, 25-octahexylphthalocyanine: A comparison between thermally evaporated and spin-coated thin films. <i>Journal of Taibah University for Science</i> , 2008, 1, 35-42.	2.5	3
87	Potential sensing of cyanide anion using fluorescent lysozyme gold-aryl bioconjugates. <i>Chemical Papers</i> , 2022, 76, 3619-3626.	2.2	3
88	Solvent extraction studies on tetravalent selenium. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1993, 171, 401-406.	1.5	2
89	The hexagonal to discotic phase transition in 1,4,8,11,15,18,22,25-octahexylphthalocyanine studied by differential scanning calorimetry. <i>Liquid Crystals</i> , 2008, 35, 351-356.	2.2	2
90	Modification of Nanodiamonds with Gold Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 4063-4068.	0.9	2

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91	Organometallic gold nanoparticles and thin films from cis- and trans-tetrazonium gold(III) salts for electrochemical and photothermal mirror properties. <i>Journal of Organometallic Chemistry</i> , 2021, 935, 121681.	1.8	2
92	Frontiers in Gold Chemistry. <i>Inorganics</i> , 2015, 3, 370-373.	2.7	1
93	Facile protic hydration of acetonitrile to protonated acetamide at oxygen mediated by chloroauric acid: insights from experimental and calculations. <i>Research on Chemical Intermediates</i> , 2020, 46, 593-607.	2.7	1
94	Immobilization of Gold-Aryl Nanoparticles Over Graphene Oxide Platforms: Experimental and Molecular Dynamics Calculations Study. <i>Journal of Cluster Science</i> , 2023, 34, 577-586.	3.3	1
95	Graphitic Carbon Nitride Platforms Modified with Gold-Aryl Nanoparticles for Efficient Electrocatalytic Hydrogen Evolution. <i>Comments on Inorganic Chemistry</i> , 0, , 1-22.	5.2	1
96	Cyclic Trinuclear Gold(I) Compounds: Synthesis, Structures and Supramolecular Acid-Base Stacks. <i>ChemInform</i> , 2005, 36, no.	0.0	0
97	Growth of gold-aryl nanoparticles in lysozyme crystals. <i>Journal of Crystal Growth</i> , 2022, 577, 126402.	1.5	0
98	Mechanochemical synthesis of gold-silver nanocomposites via diazonium salts. <i>Inorganic Chemistry Communication</i> , 2022, 137, 109231.	3.9	0
99	Robust organometallic gold nanoparticles in nanomedicine engineering of proteins. , 2022, , 73-93.		0
100	Aryldiazonium gold salts as efficient oxidants for polymerization of anilines. <i>Research on Chemical Intermediates</i> , 0, , 1.	2.7	0