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Recent biomedical applications of gold nanoparticles: A review

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133	Apoptotic and Antioxidant Activity of Gold Nanoparticles Synthesized Using Marine Brown Seaweed: An In Vitro Study. <b>2022</b> , 2022, 1-9	O
132	Recent Advances in Early Diagnosis of Viruses Associated with Gastroenteritis by Biosensors. <b>2022</b> , 12, 499	1
131	Surface modifications of Gold Nanoparticles: Stabilization and Recent Applications in Cancer Therapy. 1-33	1
130	Synthesis of gold nanoparticles (AuNPs) with improved anti-diabetic, antioxidant and anti-microbial activity from Physalis minima. <b>2022</b> , 34, 102197	2
129	Bifunctional Calix[4]arene-Coated Gold Nanoparticles for Orthogonal Conjugation.	O

128	Graphene-based wearable temperature sensors: A review. <b>2022</b> , 221, 110971	1
127	Gold nanocrystals: optical properties, fine-tuning of the shape, and biomedical applications. <b>2022</b> , 12, 23057-23073	1
126	Nano Particle-Based Targeted Drug Delivery for Effective Treatment of Cancer Disease. <b>2022</b> , 432-449	
125	A colorimetric aptasensor based on gold nanoparticles for detection of microbial toxins: an alternative approach to conventional methods.	O
124	Advancement in wound healing treatment using functional nanocarriers. 1-16	
123	Thermal Transport in Citrate-Capped Gold Interfaces Using a Polarizable Force Field. <b>2022</b> , 126, 12742-12754	
122	Elucidating Sensitivity and Stability Relationship of Gold©arbon Hybrid LSPR Sensors Using Principal Component Analysis. <b>2022</b> , 7, 27664-27673	
121	Post-synthesis heating, a key step to tune the LPR band of gold nanorods covered with CTAB or embedded in a silica shell.	2
120	Cu2+-Mediated Aggregation of Gold Nanoparticles as an Optical Probe for the Detection of Endotoxin.	1
119	Characterizing Protein-Surface and Protein-Nanoparticle Conjugates: Activity, Binding, and Structure.	
118	New rule and growth model for the synthesis method of gold nanorods with binary surfactant CTAB and NaOL. <b>2022</b> , 12, 085019	
117	Application of Forsskaolea tenacissima mediated gold nanoparticles in dyes discolouration, antibiotics removal, and metal ions detection. <b>2022</b> , 15, 104179	
116	Controlled synthesis of gemini surfactant-capped gold nanoparticles. Gemini structure-nanoparticle properties relationship study. <b>2022</b> , 365, 120210	2
115	Electrochemical DNA sensors for drug determination. <b>2022</b> , 221, 115058	1
114	Sensitivity enhancement of magneto-optical Faraday effect immunoassay method based on biofunctionalized Fe2O3@Au core-shell magneto-plasmonic nanoparticles for the blood detection of Alzheimer's disease. <b>2022</b> , 46, 102601	0
113	Changes in antiparasitical activity of gold nanorods according to the chosen synthesis. 2022, 242, 108367	O
112	Interactive study of Au20 nanocluster and methyl substituted amide linked tyrosine/tryptophan to develop representative model for studying protein-nanoparticle interaction. <b>2023</b> , 1272, 134177	0
111	Biomedical Applications of Phytonanotechnology. <b>2022</b> , 77-97	0

110	Recent Advances in the Design of Colorimetric Sensors Based on Gold Nanoparticles. 2022, 445-495	O
109	CoreShell AuAg nanoparticles as colorimetric sensing probes for highly selective detection of a dopamine neurotransmitter under different pH conditions.	O
108	Surface-modified nanotherapeutics targeting atherosclerosis. <b>2022</b> , 10, 5459-5471	1
107	Metallic nanoparticles in drug delivery. <b>2022</b> , 121-148	O
106	A review on gold nanoparticles: Biological synthesis, characterizations, and analytical applications. <b>2022</b> , 4, 100478	1
105	Synthesis of doxorubicin-loaded peptosomes hybridized with gold nanorod for targeted drug delivery and CT imaging of metastatic breast cancer. <b>2022</b> , 20,	O
104	A Study on the Electrodeposited Gold Nanoparticle (AuNP)-Film as a Nanoplatform for a Label-Free Electrochemical Strongyloidiasis Immunosensor.	2
103	Inorganic Complexes and Metal-Based for Biomarkers Sensors. <b>2023</b> , 113-155	O
102	Immobilization method of silver nanoparticles synthesized via evaporation/condensation method onto a glass plate.	1
101	Atomistic Simulation of the Coexistence of Liquid Vapor Phase States for Gold and Determination of Critical Parameters. <b>2022</b> , 14, 819-828	O
100	Advances in Nanomaterial-Based Biosensors for Determination of Glycated Hemoglobin. 2022, 22,	1
99	Nanocomposite based on gold nanoparticles and carboxymethyl cellulose: Synthesis, characterization, antimicrobial, and anticancer activities. <b>2022</b> , 103874	1
98	Silicon Nanostructures and Nanocomposites for Antibacterial and Theranostic Applications. <b>2022</b> , 113912	O
97	Accurate Nanoparticle Size Determination using Electrical Mobility Measurements in the Step and Scan Modes. 1-22	1
96	Surface engineered AuNPs for paclitaxel-loaded bleomycin delivery as a supplementation therapy.	0
95	Antimicrobial peptide functionalized gold nanorods combining near-infrared photothermal therapy for effective wound healing. <b>2022</b> , 220, 112887	1
94	Bioengineered Metallic Nanomaterials for Nanoscale Drug Delivery Systems. <b>2022</b> , 187-225	0
93	Resveratrol-loaded gold nanoparticles enhance caspase-mediated apoptosis in PANC-1 pancreatic cells via mitochondrial intrinsic apoptotic pathway. <b>2022</b> , 13,	1

92	Materials Perspectives of Integrated Plasmonic Biosensors. <b>2022</b> , 15, 7289	О
91	Recent Advances in Exosomal miRNA Biosensing for Liquid Biopsy. <b>2022</b> , 27, 7145	О
90	Microfluidic platforms integrated with nano-sensors for point-of-care bioanalysis. 2022, 116806	5
89	Ultrafast Laser-Induced Formation of Hollow Gold Nanorods and Their Optical Properties. <b>2022</b> , 7, 39287-3	39293
88	New [1,3]thiazolo[3,2-b][1,2,4]triazol-7-ium cationic surfactant as a stabilizer of silver and gold nanoparticles.	0
87	Assembling of Metal-Polymer Nanocomposites in Irradiated Solutions of 1-Vinyl-1,2,4-triazole and Au(III) Ions: Features of Polymerization and Nanoparticles Formation. <b>2022</b> , 14, 4601	O
86	Therapeutic potential of selenium nanoparticles. 4,	О
85	Formulation of a novel antibacterial topical treatment based on Magnetite-Buforin-II-silver nanobioconjugates. 10,	O
84	A Nanomedicine Structure Activity Framework for Research, Development, and Regulation of Future Cancer Therapies.	1
83	Nanomaterials in anticancer applications and their mechanism of action - A review. <b>2023</b> , 47, 102613	1
82	Two-photon emission of fluorescent carbon quantum dots made of urea and trisodium citrate. <b>2022</b> ,	О
81	Continuous Electroformation of Gold Nanoparticles in Nanoliter Droplet Reactors.	O
80	Cathodoluminescence and optical absorption spectroscopy of plasmonic modes in chromium micro-rods.	0
79	Continuous Electroformation of Gold Nanoparticles in Nanoliter Droplet Reactors.	O
78	Au Nanorods on Carbon-Based Nanomaterials as Nanohybrid Substrates for High-Efficiency Dynamic Surface-Enhanced Raman Scattering. <b>2022</b> , 7, 41815-41826	О
77	Detection of Salmonella Typhimurium with Gold Nanoparticles Using Quartz Crystal Microbalance Biosensor. <b>2022</b> , 22, 8928	O
76	Mechanically robust cuprorivaite coated supramarbles. 2022, 127044	О
75	Effects of graphene oxide and reduced graphene oxide on the energy storage capacity of a short-chain dyad. A comparative study with the pristine dyad. <b>2023</b> , 1274, 134548	O

74	Catalytic nanotechnology of X-ray photodynamic for cancer treatment.	О
73	Green Nanotechnology as an innovative drug delivery approach for Typha capensis and NaringeninNew class of phytochemical embedded biocompatible gold nanoparticles in prostate cancer therapy. <b>2023</b> , 80, 104100	O
72	Recovery of silver and gold quantum dots from wastewater via coagulative adsorption onto CoFe2O4 based magnetic covalent-organic framework to generate efficient nanocatalysts for degradation of doxorubicin drug. <b>2023</b> , 51, 103409	O
71	AuNPs@MoSe2 heterostructure as a highly efficient coreaction accelerator of electrocheluminescence for amplified immunosensing of DNA methylation. <b>2023</b> , 222, 114976	O
70	Electrochemical (bio)sensors based on carbon quantum dots, ionic liquid and gold nanoparticles for bisphenol A. <b>2023</b> , 662, 115002	О
69	Greener bio-based spherical nanoparticles for efficient multilayer textile fabrics nanocoating with outstanding fire retardancy, toxic gases suppression, reinforcement and antibacterial properties. <b>2023</b> , 36, 102595	1
68	Atomistic modeling of the properties of gold in the region of phase transitions of the first order. <b>2022</b> , 55, 53-66	O
67	Mechanism and Antibacterial Activity of Gold Nanoparticles (AuNPs) Functionalized with Natural Compounds from Plants. <b>2022</b> , 14, 2599	O
66	Self-therapeutic nanomaterials: Applications in biology and medicine. 2022,	О
65	Evaluation and mechanism of immune enhancement effects of Pleurotus ferulae polysaccharides-gold nanoparticles. <b>2022</b> ,	O
64	Metallic Nanomaterials with Biomedical Applications. <b>2022</b> , 12, 2133	O
63	Electrochemical DNA Biosensor Based on Immobilization of a Non-Modified ssDNA Using Phosphoramidate-Bonding Strategy and Pencil Graphite Electrode Modified with AuNPs/CB and Self-Assembled Cysteamine Monolayer. <b>2022</b> , 22, 9420	1
62	Nanomaterials and nanomaterials-based drug delivery to promote cutaneous wound healing. 2022, 114670	1
61	Diversity of Biogenic Nanoparticles Obtained by the Fungi-Mediated Synthesis: A Review. <b>2023</b> , 8, 1	2
60	Sensitive dopamine sensor based on electrodeposited gold nanoparticles and electro-modulated MoS2 nanoflakes.	О
59	Degradable multifunctional gold-liposomes as an all-in-one theranostic platform for image-guided radiotherapy. <b>2022</b> , 629, 122413	O
58	Parametric Drug Release Optimization of Anti-Inflammatory Drugs by Gold Nanoparticles for Topically Applied Ocular Therapy. <b>2022</b> , 23, 16191	О
57	Binding mechanism and SERS spectra of 5-fluorouracil on gold clusters. 10,	О

56	Gold Nanoparticles Are an Immobilization Platform for Active and Stable Acetylcholinesterase: Demonstration of a General Surface Protein Functionalization Strategy.	O
55	Plasmonic/magnetic liposomes based on nanoparticles with multicore-shell architecture for chemo/thermotherapy. <b>2022</b> , 2407, 012051	O
54	Interaction of Colloidal Gold Nanoparticles with Urine and Saliva Biofluids: An Exploratory Study. <b>2022</b> , 12, 4434	O
53	Biosynthesis of highly branched gold nanoparticles through structural engineering of fatty acids. <b>2022</b> , 105864	O
52	Recent advancement of nanotherapeutics in accelerating chronic wound healing process for surgical wounds and diabetic ulcers. 1-29	1
51	A COLORIMETRIC APTASENSOR BASED ON TWO DIMENSIONAL (2D) NANOMATERIAL AND GOLD NANOPARTICLES FOR DETECTION OF TOXIC HEAVY METAL IONS: A REVIEW. <b>2023</b> , 100184	O
50	Gold Nanoparticles-Based Colorimetric Assays for Environmental Monitoring and Food Safety Evaluation. 1-36	O
49	A comparative study of the biodurability and persistence of gold, silver and titanium dioxide nanoparticles using the continuous flow through system.	O
48	Interaction between gold nanoclusters and gold nanoparticles encapsulated in polymer nanoparticles. <b>2023</b> , 52, 100694	O
47	Nucleic acid drug vectors for diagnosis and treatment of brain diseases. <b>2023</b> , 8,	O
46	Ion-Mediated Protein Stabilization on Nanoscopic Surfaces.	О
45	The role of Nd3+ concentration in the modulation of the thermometric performance of Stokes/anti-Stokes luminescence thermometer in NaYF4:Nd3+. <b>2023</b> , 13,	O
44	Nanotechnology for ultrafast nucleic acid amplification. <b>2023</b> , 48, 101749	O
43	Silver nanoparticle based efficient colorimetric assay for carbaryl [An insecticide. <b>2023</b> , 372, 121200	O
42	Synthesis of gold decorated silica nanoparticles and their photothermal properties. 2023, 166, 103415	O
41	Protein corona formation on epigallocatechin gallate-Au nanoparticles suppressed tumor accumulation. <b>2023</b> , 9, 100074	O
40	Development of aptamer based colorimetric assay for whole blood glycated hemoglobin (HbA1c) estimation using gold nanoparticles. <b>2023</b> , 13, 100304	O
39	Curcumin loaded gold nanoparticles@hitosan/sodium alginate nanocomposite for nanotheranostic applications. 1-18	O

38	Recent Advances in Colorimetric Sensors Based on Gold Nanoparticles for Pathogen Detection. <b>2023</b> , 13, 29	1
37	Strategies involved in bio-inspired synthesis of metallic nanomaterials and their applications comprehensive account. <b>2023</b> , 1-36	O
36	Recent Progress of Gold-Based Nanostructures towards Future Emblem of Photo-Triggered Cancer Theranostics: A Special Focus on Combinatorial Phototherapies. <b>2023</b> , 15, 433	0
35	Green biosynthesis of nanoparticles: mechanistic aspects and applications. 2023, 99-126	О
34	Gold nano-inks: synthesis and characterizations. <b>2023</b> , 53-73	0
33	Silver and gold nanoparticles: Potential cancer theranostic applications, recent development, challenges, and future perspectives. <b>2023</b> , 247-290	O
32	Empirical model for fitting the viscosity of lithium bromide solution with CuO nanoparticles and E414. 10,	0
31	Nanoparticle-based treatment of bacterial biofilms. 2023, 563-573	O
30	Optimizing Dacarbazine Therapy: Design of a Laser-Triggered Delivery System Based on	1
29	Biological applications of plant-derived gold nanoparticles. <b>2023</b> , 357-377	O
28	Impact of Gold Nanoparticles on Metabolic and Antioxidant Status of Cryopreserved Mesenchymal Stem Cells from Adipose Tissue. <b>2023</b> , 255-266	0
27	Multivalent dipeptidyl peptidase IV fragment-nanogold complex inhibits cancer metastasis by blocking pericellular fibronectin. <b>2023</b> , 148, 213357	O
26	Nanoparticles loaded with pharmacologically active plant-derived natural products: Biomedical applications and toxicity. <b>2023</b> , 225, 113214	0
25	Engineering near-infrared laser-activated gold nanorod vesicles with upper critical solution temperature for photothermal therapy and chemotherapy. <b>2023</b> , 640, 41-51	O
24	Zwitterionic peptides: Tunable next-generation stealth nanoparticle modifications. 2023, 27, 113-124	0
23	Unaided-eye detection of diverse metal ions by AuNPs-based nanocomposites: A review. <b>2023</b> , 190, 108628	O
22	Anticancer potential of gold nanoparticles (AuNPs) using a battery of in vitro tests. 2022, 11, 3292-3304	1
21	Rapid identification and quantification of diquat in biological fluids within 30´s using a portable Raman spectrometer. <b>2023</b> , 225, 115083	O

20	Nanotechnology in Medicine. <b>2021</b> , 334-356	О
19	Roles of Nanoparticle Properties in Nanotechnology for Medical Therapeutics. 26, 474-479	O
18	Nanotechnology-Assisted Biosensors for the Detection of Viral Nucleic Acids: An Overview. <b>2023</b> , 13, 208	1
17	Molar-Fraction-Tunable Synthesis of AgAu Alloy Nanoparticles via a Dual EvaporationCondensation Method as Supported Catalysts for CO Oxidation. <b>2023</b> , 6, 3065-3074	Ο
16	Nanomaterials for Fluorescence and Multimodal Bioimaging. 2023, 23,	0
15	Nannorrhops ritchiana Leaf-Based Biomolecular Extract-Mediated Silver Nanoparticles as a Platform for Mercury(II) Sensing, Antimicrobial Activity, and DNA Interaction.	0
14	Synthesis, characterization and cytotoxicity studies of Au-decorated graphene oxide nanosheets. <b>2023</b> , 49, 18577-18583	0
13	Gold nanoparticles combined baker yeast as a successful approach for breast cancer treatment. <b>2023</b> , 21,	O
12	Importance of Nanocarriers in Colon Cancer. <b>2023</b> , 228-254	0
11	Copper-based nanoparticles for theranostic applications. <b>2023</b> , 229-251	O
10	miRNAs as Predictors of Barrier Integrity. <b>2023</b> , 13, 422	0
9	Engineered nanoflowers, nanotrees, nanostars, nanodendrites, and nanoleaves for biomedical applications. <b>2023</b> , 12,	O
8	Development of a Point-of-Care Cervico-Vaginal Sampling/Testing Device for the Colorimetric Detection of Cervical Cancer. <b>2023</b> , 13, 1382	0
7	A Recent Review on Cancer Nanomedicine. <b>2023</b> , 15, 2256	О
6	Simple Method for Optical Detection and Characterization of Surface Agents on Conjugated Gold Nanoparticles.	О
5	Nano-Biosensors Based on Noble Metal and Semiconductor Materials: Emerging Trends and Future Prospects. <b>2023</b> , 13, 792	O
4	Surface Plasmon Resonance in Metal Nano-spheres Explained with LCR Circuits.	0
3	Recent advances in the sustainable approach-based fabrication of antimicrobial nanosystems. <b>2023</b> , 297-315	O

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