

CITATION REPORT

List of articles citing

Nanostructures in biodiagnostics

DOI: 10.1021/cr030067f

Chemical Reviews, 2005, 105, 1547-62.

Source: <https://exaly.com/paper-pdf/38154016/citation-report.pdf>

Version: 2024-04-26

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
2310	Electrochemical and optical bioassays of nerve agents based on the organophosphorus-hydrolase mediated growth of cupric ferrocyanide nanoparticles. 2005 , 7, 1371-1374		10
2309	Monolayer-protected nanoparticle-protein interactions. 2005 , 9, 639-46		89
2308	Laser-induced fluorescence quenching of tagged oligonucleotide probes by gold nanoparticles. 2005 , 414, 259-264		26
2307	DNA-Based Assembly of Metal Nanoparticles. 2005 , 2005, 3641-3655		107
2306	Proofreading and error removal in a nanomaterial assembly. 2005 , 44, 7290-3		25
2305	Proofreading and Error Removal in a Nanomaterial Assembly. 2005 , 117, 7456-7459		4
2304	Nanostructures in Biodiagnostics. 2005 , 36, no		1
2303	Sub-100 nm, centimeter-scale, parallel dip-pen nanolithography. 2005 , 1, 940-5		109
2302	Nanomaterial-based amplified transduction of biomolecular interactions. 2005 , 1, 1036-43		370
2301	Light scattered by model phantom bacteria reveals molecular interactions at their surface. 2005 , 102, 15866-70		13
2300	A General Route to Nanoparticle Thin Films and Coatings. 2005 , 901, 1		
2299	A thermodynamic investigation into the binding properties of DNA functionalized gold nanoparticle probes and molecular fluorophore probes. 2005 , 127, 12754-5		251
2298	Beta-1,3-glucan polysaccharides as novel one-dimensional hosts for DNA/RNA, conjugated polymers and nanoparticles. 2005 , 4383-98		109
2297	Expanding Frontiers in Biomaterials. 2005 , 30, 864-873		38
2296	Stabilization of Silver Metal in Citrate Buffer: Barcoded Nanowires and Their Bioconjugates. 2005 , 17, 4356-4361		32
2295	Key roles for chain flexibility in block copolymer membranes that contain pores or make tubes. 2005 , 5, 2343-9		71
2294	DNA-programmed assembly of nanostructures. 2005 , 3, 4023-37		236

2293	Biotin-streptavidin-induced aggregation of gold nanorods: tuning rod-rod orientation. 2005 , 21, 10756-62	141
2292	Colorimetric bio-barcode amplification assay for cytokines. 2005 , 77, 6985-8	114
2291	Highly reproducible hybridization assay of zeptomole DNA based on adsorption of nanoparticle-bioconjugate. 2005 , 130, 1589-94	14
2290	Gold nanoparticle networks with photoresponsive interparticle spacings. 2005 , 21, 7979-84	83
2289	Three-layer composite magnetic nanoparticle probes for DNA. 2005 , 127, 15362-3	269
2288	Gold nanoclusters protected by conformationally constrained peptides. 2006 , 128, 326-36	120
2287	The role of twinning in shape evolution of anisotropic noble metal nanostructures. 2006 , 16, 3906	432
2286	Detecting RNA and DNA with templated chemical reactions. <i>Chemical Reviews</i> , 2006 , 106, 3775-89	68.1 230
2285	Nanoparticles for multiplex diagnostics and imaging. 2006 , 1, 413-26	80
2284	Gold-nanoparticle-based miniaturized laser-induced fluorescence probe for specific DNA hybridization detection: studies on size-dependent optical properties. 2006 , 17, 3085-3093	71
2283	Optimized biorecognition of cytochrome c 551 and azurin immobilized on thiol-terminated monolayers assembled on Au(111) substrates. 2006 , 110, 14574-80	34
2282	Current rectification with poly-l-lysine-coated quartz nanopipettes. 2006 , 6, 2486-92	174
2281	Dye-labeled silver nanoshell-bright particle. 2006 , 110, 8986-91	61
2280	Bionanoconjugation via click chemistry: The creation of functional hybrids of lipases and gold nanoparticles. 2006 , 17, 1373-5	223
2279	A simple method for kinetic control of DNA-induced nanoparticle assembly. 2006 , 128, 14020-1	102
2278	The tuneable complexation of gold nanoparticles. 2006 , 4119-21	13
2277	Fabry-Perot type sensor with surface plasmon resonance. 2006 , 89, 223904	26
2276	Gold nanocomposites with rigid fully conjugated heteroditopic ligands shell as nanobuilding blocks for coordination chemistry. 2006 , 4183-5	16

2275	Carbon nanotubes: enhancing the polymer building blocks for intelligent materials. 2006 , 16, 3598	57
2274	In situ generation of gold nanoparticles on a protein surface: Fischer carbene complex as reducing agent. 2006 , 3438-40	14
2273	Organosilica Particles for DNA Screening Applications. 2006 ,	
2272	Fabrication of gold nanostructures by templating from porous diatom frustules. 2006 , 30, 908	75
2271	Subfemtomolar electrochemical detection of target DNA by catalytic enlargement of the hybridized gold nanoparticle labels. 2006 , 131, 923-9	47
2270	Multiplexed Detection of Anthrax Sequences with Quantum Dot Nanoprobes. 2006 ,	
2269	Gold and silica-coated gold nanoparticles as thermographic labels for DNA detection. 2006 , 78, 3282-8	60
2268	Engineering the nanoparticle-biomacromolecule interface. 2006 , 2, 190-204	113
2267	Green fluorescent protein-expressing Escherichia coli as a model system for investigating the antimicrobial activities of silver nanoparticles. 2006 , 22, 9322-8	363
2266	Oligonucleotide-modified gold nanoparticles for intracellular gene regulation. 2006 , 312, 1027-30	1682
2265	Structures of DNA-linked nanoparticle aggregates. 2006 , 110, 12673-81	79
2264	Mixed DNA/oligo(ethylene glycol) functionalized gold surfaces improve DNA hybridization in complex media. 2006 , 1, 82-92	48
2263	Optical polarizability of metal nanoparticles and their biospheric conjugates. 2006 ,	2
2262	Plasmon resonance of gold nanoshells: sensitivity to the local dielectric environment. 2006 ,	1
2261	Maximizing DNA loading on a range of gold nanoparticle sizes. 2006 , 78, 8313-8	887
2260	Asymmetric functionalization of gold nanoparticles with oligonucleotides. 2006 , 128, 9286-7	292
2259	pH-sensitive quantum dots. 2006 , 110, 3853-5	152
2258	Bimetallic silver-gold nanowires: fabrication and use in surface-enhanced Raman scattering. 2006 , 16, 3929-3935	160

2257	Nanoparticle-based assays of antioxidant activity. 2006 , 78, 2060-3	127
2256	Multi[2]rotaxanes with gold nanoparticles as centers. 2006 , 8, 1267-70	22
2255	Nanostructure of silver metal produced photocatalytically in TiO ₂ films and the mechanism of the resulting photochromic behavior. 2006 , 110, 7743-9	40
2254	Unmodified gold nanoparticles as a colorimetric probe for potassium DNA aptamers. 2006 , 3780-2	350
2253	The plasmon band in noble metal nanoparticles: an introduction to theory and applications. 2006 , 30, 1121	515
2252	Nanolithographic write, read, and erase via reversible nanotemplated nanostructure electrodeposition on alkanethiol-modified Au(111) in an aqueous solution. 2006 , 22, 1388-91	29
2251	Characterization of crystalline dendrimer-stabilized gold nanoparticles. 2006 , 17, 1072-1078	106
2250	DPN-generated nanostructures as positive resists for preparing lithographic masters or hole arrays. 2006 , 6, 2493-8	32
2249	A model for DNA detection by metal-enhanced fluorescence from immobilized silver nanoparticles on solid substrate. 2006 , 110, 2387-92	59
2248	Coupling molecular beacons to barcoded metal nanowires for multiplexed, sealed chamber DNA bioassays. 2006 , 128, 16892-903	88
2247	Seeded growth of asymmetric binary nanocrystals made of a semiconductor TiO ₂ rodlike section and a magnetic gamma-Fe ₂ O ₃ spherical domain. 2006 , 128, 16953-70	153
2246	Nanodiagnostics: a new frontier for clinical laboratory medicine. 2006 , 52, 1238-46	145
2245	Molecular modeling of interactions between L-lysine and functionalized quartz surfaces. 2006 , 110, 4836-45	23
2244	Nanoparticle-based sensing of glycan-lectin interactions. 2006 , 128, 10018-9	113
2243	Crystal and electrochemical properties of water dispersed CdS nanocrystals obtained via reverse micelles and arrested precipitation. 2006 , 17, 2553-9	16
2242	Multipole plasmon resonances in gold nanorods. 2006 , 110, 2150-4	296
2241	Click chemistry as a reliable method for the high-density postsynthetic functionalization of alkyne-modified DNA. 2006 , 8, 3639-42	417
2240	Noncovalent nanoarchitectures on surfaces: from 2D to 3D nanostructures. 2006 , 16, 3997	66

2239	Gold nanoparticles-based protease assay. 2006 , 103, 3978-82	251
2238	Gold nanoparticles as carriers for efficient transmucosal insulin delivery. 2006 , 22, 300-5	175
2237	Synthesis of coumarin or ferrocene labeled nucleosides via Staudinger ligation. 2006 , 2, 23	19
2236	Bio-inspired Programmable Self-assembly on DNA Templates. 2006 , 35, 694-699	34
2235	Dendrimer Nanocomposites for Cancer Therapy. 2006 , 551-592	
2234	Methods of phosphor synthesis and related technology. 2006 ,	
2233	Observation of time-dependent single-particle light scattering from gold nanorods and nanospheres by using unpolarized dark-field microscopy. 2006 ,	3
2232	Toward the emergence of nanoneurosurgery: part II--nanomedicine: diagnostics and imaging at the nanoscale level. 2006 , 58, 805-23; discussion 805-23	84
2231	Modelling the Transport and Kinetics of Electroenzymes at the Electrode/Solution Interface. 2006 , 6, 1765-1790	14
2230	A fluorophore-based bio-barcode amplification assay for proteins. 2006 , 2, 103-8	126
2229	Synthesis of TiO ₂ -Au composites by titania-nanorod-assisted generation of gold nanoparticles at aqueous/nonpolar interfaces. 2006 , 2, 413-21	52
2228	Ethylene glycol-protected magnetic nanoparticles for a multiplexed immunoassay in human plasma. 2006 , 2, 485-9	128
2227	Controlled arrangement of nanoparticle arrays in block-copolymer domains. 2006 , 2, 600-11	301
2226	Phantom nanoparticles as probes of biomolecular interactions. 2006 , 2, 1060-7	18
2225	Attachment of streptavidin to beta-cyclodextrin molecular printboards via orthogonal host-guest and protein-ligand interactions. 2006 , 2, 1192-202	41
2224	Apo ferritin-templated synthesis of metal phosphate nanoparticle labels for electrochemical immunoassay. 2006 , 2, 1139-43	66
2223	Hairpin-DNA memory using molecular addressing. 2006 , 2, 1244-7	26
2222	Nanoparticles in biomolecular detection. 2006 , 1, 28-37	198

2221	Theodor Böhler Lecture. Metabolomics, modelling and machine learning in systems biology - towards an understanding of the languages of cells. Delivered on 3 July 2005 at the 30th FEBS Congress and the 9th IUBMB conference in Budapest. 2006 , 273, 873-94	133
2220	Chemical biology: aptamers in nanoland. 2006 , 439, 666-9	45
2219	Immunology: exhausted T cells perk up. 2006 , 439, 669-70	11
2218	An X-ray computed tomography imaging agent based on long-circulating bismuth sulphide nanoparticles. 2006 , 5, 118-22	757
2217	Non-cross-linking gold nanoparticle aggregation for sensitive detection of single-nucleotide polymorphisms: optimization of the particle diameter. 2006 , 350, 162-4	67
2216	Surface plasmon resonance imaging on a microchip for detection of DNA-modified gold nanoparticles deposited onto the surface in a non-cross-linking configuration. 2006 , 355, 125-31	39
2215	Colorimetric multiplexed immunoassay using specific aggregation of antigenic peptide-modified luminous nanoparticles. 2006 , 578, 11-8	17
2214	Nucleic acid aptamers and enzymes as sensors. 2006 , 10, 272-81	388
2213	Nanoparticles for bioimaging. 2006 , 123-126, 471-85	566
2212	Effects of organic ligands, electrostatic and magnetic interactions in formation of colloidal and interfacial inorganic nanostructures. 2006 , 122, 119-47	15
2211	Stability of luminescent 3C-SiC nanocrystallites in aqueous solution. 2006 , 360, 336-338	29
2210	Structure and bonding in cyclic thiolate complexes of copper, silver and gold. 2006 , 25, 2993-3005	22
2209	Surface plasmons for enhanced silicon light-emitting diodes and solar cells. 2006 , 121, 315-318	66
2208	Silver Nanoplates with Special Shapes: Controlled Synthesis and Their Surface Plasmon Resonance and Surface-Enhanced Raman Scattering Properties. 2006 , 18, 4894-4901	231
2207	Biofunctional magnetic nanoparticles for protein separation and pathogen detection. 2006 , 941-9	584
2206	Optical amplification of photothermal therapy with gold nanoparticles and nanoclusters. 2006 , 17, 5167-5179	314
2205	A nanocatalyst-based assay for proteins: DNA-free ultrasensitive electrochemical detection using catalytic reduction of p-nitrophenol by gold-nanoparticle labels. 2006 , 128, 16022-3	286
2204	Electrostatic aggregation and formation of core-shell suprastructures in binary mixtures of charged metal nanoparticles. 2006 , 6, 1896-903	87

2203	Biomedical applications of plasmon resonant metal nanoparticles. 2006 , 1, 201-8	300
2202	Why gold nanoparticles are more precious than pretty gold: noble metal surface plasmon resonance and its enhancement of the radiative and nonradiative properties of nanocrystals of different shapes. 2006 , 35, 209-17	2539
2201	Calculated absorption and scattering properties of gold nanoparticles of different size, shape, and composition: applications in biological imaging and biomedicine. 2006 , 110, 7238-48	3334
2200	Selective entrance of gold nanoparticles into cancer cells. 2006 , 39, 66-68	18
2199	Toward hybridization assays without PCR using universal nanoamplicons. 2006 , 386, 2219-23	4
2198	The pinpoint promise of nanoparticle-based drug delivery and molecular diagnosis. 2006 , 23, 171-84	237
2197	One-electron oxidation pathways during beta-cyclodextrin-modified TiO ₂ photocatalytic reactions. 2006 , 12, 7585-94	26
2196	Rational design of DNA nanoarchitectures. 2006 , 45, 1856-76	490
2195	Sequential self-assembly of a DNA hexagon as a template for the organization of gold nanoparticles. 2006 , 45, 2204-9	177
2194	Fast colorimetric sensing of adenosine and cocaine based on a general sensor design involving aptamers and nanoparticles. 2005 , 45, 90-4	801
2193	Diagnostics of single base-mismatch DNA hybridization on gold nanoparticles by using the hyper-Rayleigh scattering technique. 2006 , 45, 1151-4	109
2192	Visible sensing of nucleic acid sequences with a genetically encodable unmodified RNA probe. 2006 , 45, 2879-83	17
2191	Multisegmented one-dimensional nanorods prepared by hard-template synthetic methods. 2006 , 45, 2672-92	447
2190	Bionanotube tetrapod assembly by in situ synthesis of a gold nanocluster with (Gp5-His6) ₃ from bacteriophage T4. 2006 , 45, 4508-12	33
2189	DNA polymerization on gold nanoparticles through rolling circle amplification: towards novel scaffolds for three-dimensional periodic nanoassemblies. 2006 , 45, 2409-13	118
2188	Multiple length-scale patterning of DNA by stamp-assisted deposition. 2006 , 45, 4779-82	31
2187	Multiplexed DNA detection with biobarcoded nanoparticle probes. 2006 , 45, 3303-6	231
2186	The supramolecular chemistry of organic-inorganic hybrid materials. 2006 , 45, 5924-48	469

2185	A simple strategy for prompt visual sensing by gold nanoparticles: general applications of interparticle hydrogen bonds. 2006 , 45, 4948-51	103
2184	Proton-fueled, reversible assembly of gold nanoparticles by controlled triplex formation. 2006 , 45, 5960-3	48
2183	Reversible binding of fluorescent proteins at DNA-gold nanoparticles. 2006 , 45, 6827-30	38
2182	One-step homogeneous detection of DNA hybridization with gold nanoparticle probes by using a linear light-scattering technique. 2006 , 45, 8022-5	153
2181	Semicarbazide-Functionalized Silicate Nanoparticles for Peptide Ligation. 2006 , 2006, 2766-2772	6
2180	Rationaler Entwurf von DNA-Nanoarchitekturen. 2006 , 118, 1888-1910	145
2179	Sequential Self-Assembly of a DNA Hexagon as a Template for the Organization of Gold Nanoparticles. 2006 , 118, 2262-2267	45
2178	Fast Colorimetric Sensing of Adenosine and Cocaine Based on a General Sensor Design Involving Aptamers and Nanoparticles. 2006 , 118, 96-100	185
2177	Diagnostics of Single Base-Mismatch DNA Hybridization on Gold Nanoparticles by Using the Hyper-Rayleigh Scattering Technique. 2006 , 118, 1169-1172	16
2176	Visible Sensing of Nucleic Acid Sequences with a Genetically Encodable Unmodified RNA Probe. 2006 , 118, 2945-2949	2
2175	Vielsegmentige Nanostäbe: Templatsynthese und Eigenschaften. 2006 , 118, 2738-2759	41
2174	Bionanotube Tetrapod Assembly by In Situ Synthesis of a Gold Nanocluster with (Gp5His ₆) ₃ from Bacteriophage T4. 2006 , 118, 4620-4624	6
2173	DNA Polymerization on Gold Nanoparticles through Rolling Circle Amplification: Towards Novel Scaffolds for Three-Dimensional Periodic Nanoassemblies. 2006 , 118, 2469-2473	27
2172	Multiple Length-Scale Patterning of DNA by Stamp-Assisted Deposition. 2006 , 118, 4897-4900	5
2171	Multiplexed DNA Detection with Biobarcode Nanoparticle Probes. 2006 , 118, 3381-3384	52
2170	Die supramolekulare Chemie organisch-anorganischer Hybrid-Nanomaterialien. 2006 , 118, 6068-6093	93
2169	A Simple Strategy for Prompt Visual Sensing by Gold Nanoparticles: General Applications of Interparticle Hydrogen Bonds. 2006 , 118, 5070-5073	19
2168	Proton-Fueled, Reversible Assembly of Gold Nanoparticles by Controlled Triplex Formation. 2006 , 118, 6106-6109	15

2167	Reversible Binding of Fluorescent Proteins at DNA-Gold Nanoparticles. 2006 , 118, 6981-6984	7
2166	One-Step Homogeneous Detection of DNA Hybridization with Gold Nanoparticle Probes by Using a Linear Light-Scattering Technique. 2006 , 118, 8190-8193	15
2165	Selective Immobilization of Protein Clusters on Polymeric Nanocraters. 2006 , 16, 1242-1246	38
2164	Synthesis, Assembly, and Biofunctionalization of Silica-Coated Gold Nanorods for Colorimetric Biosensing. 2006 , 16, 1673-1678	171
2163	Fast and Spatially Resolved Environmental Probing Using Stimuli-Responsive Polymer Layers and Fluorescent Nanocrystals. 2006 , 18, 1453-1457	86
2162	DNA Designer Defects in Photonic Crystals: Optically Monitored Biochemistry. 2006 , 18, 2387-2391	47
2161	A Rapid Prototyping Approach to Ag Nanoparticle Fabrication in the 100-1000 nm Range. 2006 , 18, 2240-2243	17
2160	pH-Triggered Dispersion of Nanoparticle Clusters. 2006 , 18, 2315-2319	32
2159	Combining Fluorescent Probes and Biofunctional Magnetic Nanoparticles for Rapid Detection of Bacteria in Human Blood. 2006 , 18, 3145-3148	150
2158	Probing biopolymer conformation by metallization with noble metals. 2006 , 17, 5224-5232	11
2157	Phase transitions in DNA-linked nanoparticle assemblies: a decorated-lattice model. 2006 , 125, 194701	10
2156	Nanotechnology: Science and Computation. 2006 ,	9
2155	Photochromic silver nanoparticles in titania. 2006 ,	
2154	Precise localization and correlation of single nanoparticle optical responses and morphology. 2006 , 88, 263111	23
2153	Electron tunneling in a metal-protein-metal junction investigated by scanning tunneling and conductive atomic force spectroscopies. 2006 , 89, 183125	21
2152	Enhanced Raman scattering from individual semiconductor nanocones and nanowires. 2006 , 96, 157402	148
2151	Physical manipulation of biological and chemical syntheses for nanoparticle shape and size control. 2006 , 89, 263105	8
2150	Influence of the nanoscale structure of gold thin films upon peroxidase-induced chemiluminescence. 2006 , 88, 023903	17

2149	A mechanism to signal receptor-substrate interactions with luminescent quantum dots. 2006 , 103, 11457-60	129
2148	Bio-Applications of Nanoparticles. 2007 ,	13
2147	Enhanced oligonucleotide-nanoparticle conjugate stability using thioctic acid modified oligonucleotides. 2007 , 35, 3668-75	125
2146	Intravesicular and intervesicular interaction by orthogonal multivalent host-guest and metal-ligand complexation. 2007 , 104, 6986-91	57
2145	Nanoparticles for Optical Imaging of Cancer. 2007 ,	1
2144	Ultrasensitive densitometry detection of cytokines with nanoparticle-modified aptamers. 2007 , 53, 1061-6	38
2143	Optical Biosensing Based on Metal and Semiconductor Colloidal Nanocrystals. 2007 ,	1
2142	Self-assembled combinatorial encoding nanoarrays for multiplexed biosensing. 2007 , 7, 507-12	110
2141	From Metal-Organic Precursors to Functional Ceramics and Related Nanoscale Materials. 2007 , 35-70	7
2140	In-silico nanobio-design. A new frontier in computational biology. 2007 , 7, 1537-40	5
2139	Nanomaterial based affinity matrix-assisted laser desorption/ionization mass spectrometry for biomolecules and pathogenic bacteria. 2007 , 1, 99-111	26
2138	Electrical Detection of Nucleic Acids using Target-Guided Formation of Conducting Polymer Nanowires in Nanogaps. 2007 ,	
2137	Protein detection using a radio frequency biosensor with amplified gold nanoparticles. 2007 , 91, 143901	14
2136	Molecular dynamics simulations of a single stranded (ss) DNA. 2007 , 33, 573-576	5
2135	Characterization of pH3DZ1 [An RNA-cleaving deoxyribozyme with optimal activity at pH 3. 2007 , 85, 261-273	19
2134	Direct Detection of Nucleic Acids by Tagging Phosphates on Their Backbones with Conductive Nanoparticles. 2007 ,	1
2133	DNA-mediated patterning of gold nanoparticles into discrete structures: modularity, write/erase, and structural switching. 2007 ,	
2132	Synthesis and Self-assembly of DMPC-conjugated Gold Nanoparticles. 2007 , 1061, 1	

2131	Switchable DNA interfaces for the highly sensitive detection of label-free DNA targets. 2007 , 104, 17364-9	108
2130	A novel approach to ultrasensitive diagnosis using supramolecular protein nanoparticles. 2007 , 21, 1324-34	31
2129	Array feature size influences nucleic acid surface capture in DNA microarrays. 2007 , 104, 8223-8	70
2128	Investigation on Chaining of Au/Aniline Polymerid Nanocomposites with Different Electrodes Configuration and Characterization. 2007 , 121-123, 755-758	
2127	Beyond Microtechnology Nanotechnology in Molecular Diagnosis. 2007 , 187-197	5
2126	Stable, Hydrophilic Nitriлотriacetic Acid-Capped Gold Monolayer Protected Clusters. 2007 , 1064, 3101	2
2125	Submicrometre scale single-crystalline gold plates of nanometre thickness: synthesis through a nucleobase process and growth mechanism. 2007 , 18, 295603	15
2124	Nanoparticles and Nanowires for Cellular Engineering. 2007 ,	2
2123	Biomimetic Nanosensors. 2007 ,	
2122	Nanoparticle-Based biobarcode amplification assay (BCA) for sensitive and early detection of human immunodeficiency type 1 capsid (p24) antigen. 2007 , 46, 231-7	73
2121	SERS nanoparticles: a new optical detection modality for cancer diagnosis. 2007 , 2, 725-34	84
2120	Metal-enhanced single-molecule fluorescence on silver particle monomer and dimer: coupling effect between metal particles. 2007 , 7, 2101-7	340
2119	Metal-enhanced fluorescence of an organic fluorophore using gold particles. 2007 , 15, 2598-606	92
2118	Luminescent images of single gold nanoparticles and their labeling on silica beads. 2007 , 15, 13415-20	12
2117	A simple nucleic acid hybridization/latex agglutination assay for the rapid detection of polymerase chain reaction amplicons. 2007 , 68, 568-76	4
2116	Detection of MicroRNAs using target-guided formation of conducting polymer nanowires in nanogaps. 2007 , 129, 5437-43	197
2115	Langmuir-Blodgett patterning: a bottom-up way to build mesostructures over large areas. 2007 , 40, 393-401	187
2114	Chemical modification of monolayer-protected gold nanoparticles using hyperbaric conditions. 2007 , 129, 4904-5	32

2113	In Situ Synthesis of Metal Nanoparticles and Selective Naked-Eye Detection of Lead Ions from Aqueous Media. 2007 , 111, 12839-12847	322
2112	Nanomaterials and nanoparticles: sources and toxicity. 2007 , 2, MR17-71	2132
2111	Toxicity of luminescent silica nanoparticles to living cells. 2007 , 20, 1126-33	233
2110	9-donor-substituted acridinium salts: versatile environment-sensitive fluorophores for the detection of biomacromolecules. 2007 , 129, 1254-67	115
2109	Vancomycin architecture dependence on the capture efficiency of antibody-modified microbeads by magnetic nanoparticles. 2007 , 1227-9	19
2108	Self-assembly and encoding of polymer-stabilized gold nanoparticles with surface-enhanced Raman reporter molecules. 2007 , 23, 10539-45	57
2107	Microarray detection of duplex and triplex DNA binders with DNA-modified gold nanoparticles. 2007 , 79, 6037-41	66
2106	Silver nanoparticles coated with adenine: preparation, self-assembly and application in surface-enhanced Raman scattering. 2007 , 18, 175610	36
2105	Microarrays. 2007 ,	1
2104	Detection of cadmium sulphide nanoparticles by using screen-printed electrodes and a handheld device. 2007 , 18, 035502	33
2103	Gold Nanoparticle Assisted Assembly of a Heme Protein for Enhancement of Long-Range Interfacial Electron Transfer. 2007 , 111, 6124-6132	117
2102	Enhanced Förster Resonance Energy Transfer on Single Metal Particle. 2. Dependence on Donor-Acceptor Separation Distance, Particle Size, and Distance from Metal Surface. 2007 , 111, 11784-11792	103
2101	Homocysteine-mediated reactivity and assembly of gold nanoparticles. 2007 , 23, 826-33	127
2100	Self-directed and self-oriented immobilization of antibody by protein G-DNA conjugate. 2007 , 79, 6534-41	103
2099	Bioinspired functional block copolymers. 2007 , 3, 394-408	207
2098	Amplified electrochemical detection of DNA through the aggregation of Au nanoparticles on electrodes and the incorporation of methylene blue into the DNA-crosslinked structure. 2007 , 3544-6	98
2097	A surface phase transition of supported gold nanoparticles. 2007 , 7, 1026-31	71
2096	Laser-Induced Growth of Monodisperse Silver Nanoparticles with Tunable Surface Plasmon Resonance Properties and a Wavelength Self-Limiting Effect. 2007 , 111, 14962-14967	98

2095	Statistical analysis of intensity fluctuations in single molecule SERS spectra. 2007 , 9, 5315-9	22
2094	Peptide-mediated surface-immobilized quantum dot hybrid nanoassemblies with controlled photoluminescence. 2007 , 17, 866-872	25
2093	DNA-directed assembly of supramolecular fluorescent protein energy transfer systems. 2007 , 18, 621-7	24
2092	Enhanced stability and bioconjugation of photo-cross-linked polystyrene-shell, Au-core nanoparticles. 2007 , 23, 7491-7	40
2091	Encapsulation and Functionalization of Nanoparticles in Crosslinked Resorcinarene Shells. 2007 , 17, 105-112	27
2090	Specific and sensitive detection of nucleic acids and RNases using gold nanoparticle-RNA-fluorescent dye conjugates. 2007 , 4342-4	51
2089	DNA hybridization "turns on" electro-catalysis at gold electrodes. 2007 , 1154-6	28
2088	Nanopatterning with Extreme Ultraviolet Interference Lithography for Nanoelectronics and Biotechnology. 2007 ,	
2087	DNA-based approach for interparticle interaction control. 2007 , 23, 6305-14	57
2086	Voltammetric Detection of Cancer Biomarkers Exemplified by Interleukin-10 and Osteopontin with Silica Nanowires. 2007 , 111, 13981-13987	28
2085	Novel arylhydrazone-conjugated gold nanoparticles with DNA-cleaving ability: the first DNA-nicking nanomaterial. 2007 , 18, 1709-12	12
2084	Nearly Complete Oxidation of Au ⁰ in Hydrophobized Nanoparticles to Au ³⁺ Ions by N-Bromosuccinimide. 2007 , 111, 14348-14352	18
2083	Shaping the Morphology of Gold Nanoparticles by CO Adsorption. 2007 , 111, 18848-18852	50
2082	Fluorescence images of DNA-bound YOYO between coupled silver particles. 2007 , 23, 11734-9	10
2081	Preparation of biotinylated glyconanoparticles via a photochemical process and study of their bioconjugation to streptavidin. 2007 , 23, 12835-41	56
2080	Depolarized Hyper-Rayleigh Scattering from Copper Nanoparticles. 2007 , 111, 10652-10656	36
2079	Use of the interparticle i-motif for the controlled assembly of gold nanoparticles. 2007 , 23, 11956-9	70
2078	Targeted nanoparticle-based drug delivery and diagnosis. 2007 , 15, 163-83	159

2077	Role of ions in the colloidal synthesis of gold nanowires. 2007 , 87, 2143-2158	52
2076	Guest-mediated access to a single DNA nanostructure from a library of multiple assemblies. 2007 , 129, 10070-1	50
2075	A nanoparticle-based solution DNA sandwich assay using ICP-AES for readout. 2007 , 8, 2795-800	24
2074	Polymer manipulation and nanofabrication in real time using transmission electron microscopy. 2007 , 8, 70-6	7
2073	Silica-coated, Au/Ag striped nanowires for bioanalysis. 2007 , 23, 11334-41	46
2072	Studying the thermodynamics of surface reactions on nanoparticles by electrostatic titrations. 2007 , 129, 6664-5	59
2071	Functional metalloproteins integrated with conductive substrates: detecting single molecules and sensing individual recognition events. 2007 , 111, 5062-75	37
2070	A novel solvothermal method for nanoparticle thin films and coatings. 2007 , 18, 025603	15
2069	Controlled size manipulation of free gold nanoparticles by laser irradiation and their facile bioconjugation. 2007 , 17, 4705	120
2068	Modeling of Electrodynamic Interactions between Metal Nanoparticles Aggregated by Electrostatic Interactions into Closely-Packed Clusters. 2007 , 111, 11816-11822	35
2067	Facile preparation of glyconanoparticles and their bioconjugation to streptavidin. 2007 , 23, 5056-61	81
2066	Self-assembly on silicon carbide nanomesh templates. 2007 , 40, 6287-6299	23
2065	Nanodisk codes. 2007 , 7, 3849-53	138
2064	Single cell fluorescence imaging using metal plasmon-coupled probe. 2007 , 18, 800-5	16
2063	Recent advances in basic and clinical nanomedicine. 2007 , 91, 805-43	70
2062	Colorimetric Cu ²⁺ detection with a ligation DNAzyme and nanoparticles. 2007 , 4872-4	207
2061	Nanomaterials for Medical Applications. 2007 ,	4
2060	Enhanced Förster Resonance Energy Transfer (FRET) on Single Metal Particle. 2007 , 111, 50-56	148

2059	Surface Plasmon Resonance of Gold Nanoparticle Arrays Partially Embedded in Quartz Substrates. 2007 , 111, 3658-3664	15
2058	Silver hierarchical bowl-like array: synthesis, superhydrophobicity, and optical properties. 2007 , 23, 9802-7	163
2057	Simple Strategy for Preparation of Core Colloids Modified with Metal Nanoparticles. 2007 , 111, 3651-3657	81
2056	Functionalized magnetic nanoparticles for small-molecule isolation, identification, and quantification. 2007 , 79, 3401-8	136
2055	Facile functionalization of gold nanoparticles via microwave-assisted 1,3 dipolar cycloaddition. 2007 , 23, 11991-5	67
2054	High density single molecule surface patterning with colloidal epitaxy. 2007 , 91, 083902	9
2053	Improved biocompatibility of surface functionalized dendrimer-entrapped gold nanoparticles. 2006 , 3, 71-74	125
2052	Hybridization-modulated ion fluxes through peptide-nucleic-acid- functionalized gold nanotubes. A new approach to quantitative label-free DNA analysis. 2007 , 7, 1609-12	83
2051	Quenching of molecular fluorescence on the surface of monolayer-protected gold nanoparticles investigated using place exchange equilibria. 2007 , 23, 5563-70	54
2050	One-step, nanoparticle-mediated bacterial detection with magnetic relaxation. 2007 , 7, 380-3	187
2049	Gold nanoparticles decorated with oligo(ethylene glycol) thiols: protein resistance and colloidal stability. 2007 , 111, 12229-37	45
2048	A gold-nanoparticle-based fluorescence resonance energy transfer probe for multiplexed hybridization detection: accurate identification of bio-agents DNA. 2007 , 18, 375504	46
2047	Metallic barcodes for multiplexed bioassays. 2007 , 2, 695-710	46
2046	Luminescent chemosensors based on semiconductor quantum dots. 2007 , 9, 2036-43	106
2045	Synthesis, characterization, and intracellular uptake of carboxyl-terminated poly(amidoamine) dendrimer-stabilized iron oxide nanoparticles. 2007 , 9, 5712-20	149
2044	Ultrasensitive assays for proteins. 2007 , 132, 724-37	118
2043	Silver nanoparticle-oligonucleotide conjugates based on DNA with triple cyclic disulfide moieties. 2007 , 7, 2112-5	409
2042	Sugar-quantum dot conjugates for a selective and sensitive detection of lectins. 2007 , 18, 146-51	102

2041	Universal scaling of plasmon coupling in metal nanostructures: extension from particle pairs to nanoshells. 2007 , 7, 2854-8	261
2040	Multi-functional gold nanoparticles for drug delivery. 2007 , 620, 48-56	80
2039	A Centrifugation-based Method for Preparation of Gold Nanoparticles and its Application in Biodetection. 2007 , 8, 526-532	26
2038	. 2007 ,	49
2037	Functional immobilization of the small GTPase Rab6A on DNA-Gold nanoparticles by using a site-specifically attached poly(ethylene glycol) linker and thiol place-exchange reaction. 2007 , 8, 32-6	23
2036	Avidin decorated core-shell nanoparticles for biorecognition studies by elastic light scattering. 2007 , 8, 1021-8	16
2035	DNA-protein noncovalent cross-linking: ruthenium dipyridophenazine biotin complex for the assembly of proteins and gold nanoparticles on DNA templates. 2007 , 8, 804-12	19
2034	Bidirectional control of gold nanoparticle assembly by turning on and off DNA hybridization with thermally degradable molecular glue. 2007 , 8, 483-5	20
2033	Single-molecule technology for rapid detection of DNA hybridization based on resonance light scattering of gold nanoparticles. 2007 , 8, 1126-9	49
2032	Direct detection of nucleic acids by tagging phosphates on their backbones with conductive nanoparticles. 2007 , 46, 2051-4	25
2031	High-yield synthesis of single-crystalline gold nano-octahedra. 2007 , 46, 3264-8	196
2030	pH-switchable silver nanoprism growth pathways. 2007 , 46, 2036-8	212
2029	Development of a T1 contrast agent for magnetic resonance imaging using MnO nanoparticles. 2007 , 46, 5397-401	505
2028	DNA photography: an ultrasensitive DNA-detection method based on photographic techniques. 2007 , 46, 4184-7	46
2027	A gold-nanoparticle-based real-time colorimetric screening method for endonuclease activity and inhibition. 2007 , 46, 3468-70	240
2026	Colorimetric detection of mercuric ion (Hg ²⁺) in aqueous media using DNA-functionalized gold nanoparticles. 2007 , 46, 4093-6	1124
2025	Helical arrangement of interstrand stacked pyrenes in a DNA framework. 2007 , 46, 4464-7	141
2024	A water-based synthesis of octahedral, decahedral, and icosahedral Pd nanocrystals. 2007 , 46, 9279-82	200

2023	Direct Detection of Nucleic Acids by Tagging Phosphates on Their Backbones with Conductive Nanoparticles. 2007 , 119, 2097-2100	5
2022	High-Yield Synthesis of Single-Crystalline Gold Nano-octahedra. 2007 , 119, 3328-3332	69
2021	pH-Switchable Silver Nanoprism Growth Pathways. 2007 , 119, 2082-2084	48
2020	Development of a T1 Contrast Agent for Magnetic Resonance Imaging Using MnO Nanoparticles. 2007 , 119, 5493-5497	119
2019	DNA-Photographie: eine ultraempfindliche Methode zur Detektion von DNA mithilfe photographischer Techniken. 2007 , 119, 4262-4265	23
2018	A Gold-Nanoparticle-Based Real-Time Colorimetric Screening Method for Endonuclease Activity and Inhibition. 2007 , 119, 3538-3540	69
2017	Colorimetric Detection of Mercuric Ion (Hg ²⁺) in Aqueous Media using DNA-Functionalized Gold Nanoparticles. 2007 , 119, 4171-4174	246
2016	Helical Arrangement of Interstrand Stacked Pyrenes in a DNA Framework. 2007 , 119, 4548-4551	51
2015	A Water-Based Synthesis of Octahedral, Decahedral, and Icosahedral Pd Nanocrystals. 2007 , 119, 9439-9442	72
2014	Bionanoarrays. 233-259	1
2013	Self-Assembling Nanostructures from Coiled-Coil Peptides. 17-38	7
2012	Self-Assembling DNA Nanostructures for Patterned Molecular Assembly. 79-97	3
2011	Shape Control of Platinum Nanoparticles. 2007 , 17, 2219-2228	127
2010	Biochemical Synthesis and Manipulation of a 70 nm DNA Linker for the Assembly of DNA-Functionalized Gold Nanoparticles. 2007 , 17, 437-442	4
2009	Rapid Fabrication of Micro- and Nanoscale Patterns by Replica Molding from Diatom Biosilica. 2007 , 17, 2439-2446	120
2008	Fabrication of Oligonucleotide Chips by Using Parallel Cantilever-Based Electrochemical Deposition in Picoliter Volumes. 2007 , 19, 1816-1821	41
2007	DNA-Based Self-Sorting of Nanoparticles on Gold Surfaces. 2007 , 19, 1951-1956	16
2006	A Gold Nanoparticle-Based Aptamer Target Binding Readout for ATP Assay. 2007 , 19, 3943-3946	375

2005	Highly Stabilized Nucleotide-Capped Small Gold Nanoparticles with Tunable Size. 2007 , 19, 1766-1771	93
2004	Fungus-Based Synthesis of Chemically Difficult-To-Synthesize Multifunctional Nanoparticles of CuAlO ₂ . 2007 , 19, 3295-3299	38
2003	Hybrid Nanoparticles for Magnetic Resonance Imaging of Target-Specific Viral Gene Delivery. 2007 , 19, 3109-3112	71
2002	Nanovehicles Based Bioassay Labels. 2007 , 19, 777-785	35
2001	Nanoparticle-Based Electrochemical Bioassays of Proteins. 2007 , 19, 769-776	128
2000	Nanobiomaterials in Electroanalysis. 2007 , 19, 739-741	56
1999	"Nanoions": fundamental properties and analytical applications of charged nanoparticles. 2007 , 8, 2171-6	55
1998	DNA-based nanofabrications. 2007 , 70, 522-9	12
1997	The potential use of the enhanced nonlinear properties of gold nanospheres in photothermal cancer therapy. 2007 , 39, 747-53	219
1996	On the Raman scattering from semiconducting nanowires. 2007 , 38, 697-703	21
1995	Voltage regulation of single green fluorescent protein mutants. 2007 , 125, 368-74	6
1994	Self-aggregation of bilayer ferrocenyl termini gold nanoparticles. 2007 , 10, 511-513	4
1993	SERS detection of thrombin by protein recognition using functionalized gold nanoparticles. 2007 , 3, 306-10	49
1992	Nanoparticle-induced transition from positive to negative photochromism. 2007 , 360, 938-944	40
1991	Biosensing potential of silica/gold nanoshells: Sensitivity of plasmon resonance to the local dielectric environment. 2007 , 106, 154-169	42
1990	Comparison of morphology and electrical conductivity of various thin films containing nano-crystalline praseodymium oxide particles. 2007 , 136, 191-198	44
1989	Fluorescence amplification using colloidal photonic crystal platform in sensing dye-labeled deoxyribonucleic acids. 2007 , 124, 147-152	28
1988	Gram-scale synthesis of aqueous gold colloids stabilized by various ligands. 2007 , 309, 94-8	35

1987	A facile synthesis to Zn(2)SiO(4):Mn(2+) phosphor with controllable size and morphology at low temperature. 2007 , 314, 510-3	20
1986	Au nanoparticles target cancer. 2007 , 2, 18-29	881
1985	Constructing novel materials with DNA. 2007 , 2, 26-35	119
1984	Functional devices from DNA and proteins. 2007 , 2, 42-52	72
1983	The biomacromolecule-nanoparticle interface. 2007 , 2, 34-43	97
1982	Pronounced Effect of DNA Hybridization on Click Reaction Efficiency. 2007 , 26, 1159-1164	19
1981	CdSe nanocrystals as hydroperoxide scavengers: a new approach to highly sensitive quantification of lipid hydroperoxides. 2007 , 3, 290-3	28
1980	Conducting polymers confined within bioactive peptide amphiphile nanostructures. 2007 , 3, 2024-8	41
1979	Bi ₂ WO ₆ nano- and microstructures: shape control and associated visible-light-driven photocatalytic activities. 2007 , 3, 1618-25	525
1978	Intercalating gold nanoparticles as universal labels for DNA detection. 2007 , 3, 1491-5	25
1977	DNA-regulated micro- and nanoparticle assembly. 2007 , 3, 1678-82	78
1976	C ₆₀ molecular chains on alpha-sexithiophene nanostripes. 2007 , 3, 2015-8	59
1975	Detection and identification of proteins using nanoparticle-fluorescent polymer 'chemical nose' sensors. 2007 , 2, 318-23	666
1974	Focusing capillary jets close to the continuum limit. 2007 , 3, 737-742	96
1973	Cis-regulatory hairpin-shaped mRNA encoding a reporter protein: catalytic sensing of nucleic acid sequence at single nucleotide resolution. 2007 , 2, 1105-16	7
1972	Exploiting nanotechnology to target cancer. 2007 , 96, 1315-9	66
1971	Use of nanoparticles in the electrochemical analysis of biological samples. 2007 , 62, 813-824	19
1970	Emission Behavior of Fluorescently Labeled Silver Nanoshell: Enhanced Self-Quenching by Metal Nanostructure. 2007 , 111, 1955-1961	39

1969	Surface Plasmon Resonance Sensitivity of Metal Nanostructures: Physical Basis and Universal Scaling in Metal Nanoshells. 2007 , 111, 17451-17454	157
1968	Highly crystalline anisotropic superstructures via magnetic field induced nanoparticle assembly. 2007 , 5001-3	44
1967	Gd nanoparticulates: from magnetic resonance imaging to neutron capture therapy. 2007 , 18, 663-698	56
1966	On the Universal Scaling Behavior of the Distance Decay of Plasmon Coupling in Metal Nanoparticle Pairs: A Plasmon Ruler Equation. 2007 , 7, 2080-2088	1240
1965	Functionalized gold nanoparticles for drug delivery. 2007 , 2, 113-23	381
1964	Chemiluminescent detection of DNA hybridization using gold nanoparticles as labels. 2007 , 387, 613-8	24
1963	Semi-quantitative determination of cationic surfactants in aqueous solutions using gold nanoparticles as reporter probes. 2007 , 387, 2091-9	22
1962	Gold nanoparticle aggregation-based highly sensitive DNA detection using atomic force microscopy. 2007 , 388, 1185-90	22
1961	An introduction to nanotechnologies: what's in it for us?. 2007 , 31 Suppl 1, 131-7	26
1960	cis-Pt Mediated Assembly of Gold Nanoparticles on DNA. 2007 , 18, 193-204	12
1959	Nanoparticles in Liquid Crystals: Synthesis, Self-Assembly, Defect Formation and Potential Applications. 2007 , 17, 483-508	265
1958	Drug and gene delivery using gold nanoparticles. 2007 , 3, 40-45	149
1957	Bionanofabrication by Near-Field Optical Methods. 2007 , 3, 223-240	2
1956	Strategies for controlled placement of nanoscale building blocks. 2007 , 2, 519-45	83
1955	Review of Some Interesting Surface Plasmon Resonance-enhanced Properties of Noble Metal Nanoparticles and Their Applications to Biosystems. 2007 , 2, 107-118	973
1954	Assays Based on Differential Adsorption of Single-stranded and Double-stranded DNA on Unfunctionalized Gold Nanoparticles in a Colloidal Suspension. 2007 , 2, 165-171	18
1953	Gold Nanoparticle Based FRET for DNA Detection. 2007 , 2, 173-183	136
1952	A microRNA biosensor based on direct chemical ligation and electrochemically amplified detection. 2007 , 121, 552-559	38

1951	Ultrasensitive electrochemical immunosensing using magnetic beads and gold nanocatalysts. 2008 , 23, 932-8	52
1950	Microarray based Raman spectroscopic detection with gold nanoparticle probes. 2008 , 23, 1125-30	42
1949	Photochemical formation of semiconducting nanostructures. 2008 , 44, 205-231	17
1948	Gold nanoparticlebased optical probes for target-responsive DNA structures. 2008 , 41, 37-41	58
1947	Ultra-sensitive detection of individual gold nanoparticles: spectroscopy and applications to biology. 2008 , 41, 139-146	11
1946	Photochemical and analytical applications of gold nanoparticles and nanorods utilizing surface plasmon resonance. 2008 , 391, 2411-21	38
1945	Fluorescence Quenching of CdTe Nanocrystals by Bound Gold Nanoparticles in Aqueous Solution. 2008 , 3, 3-11	51
1944	A facile synthesis of monodisperse Au nanoparticles and their catalysis of CO oxidation. 2008 , 1, 229-234	332
1943	Magnetic iron oxide nanoparticles: synthesis and surface functionalization strategies. 2008 , 3, 397-415	1530
1942	Nanodiagnostic Method for Colorimetric Detection of Mycobacterium tuberculosis 16S rRNA. 2008 , 4, 28-35	14
1941	Detection of foodborne pathogens using bioconjugated nanomaterials. 2008 , 5, 571-583	51
1940	Proteomics, nanotechnology and molecular diagnostics. 2008 , 8, 715-30	77
1939	Atomic force microscopy-derived nanoscale chip for the detection of human pathogenic viruses. 2008 , 4, 847-54	15
1938	Enzymatic cleavage of nucleic acids on gold nanoparticles: a generic platform for facile colorimetric biosensors. 2008 , 4, 810-6	128
1937	Colorimetric response of peptide-functionalized gold nanoparticles to metal ions. 2008 , 4, 548-51	221
1936	Convenient synthesis and properties of polypropyleneimine dendrimer-functionalized polymer nanoparticles. 2008 , 4, 833-40	14
1935	Visual cocaine detection with gold nanoparticles and rationally engineered aptamer structures. 2008 , 4, 1196-200	365
1934	Adenovirus knob trimers as tailorable scaffolds for nanoscale assembly. 2008 , 4, 1941-4	3

1933	The third dimension: DNA-driven formation of nanoparticle crystals. 2008 , 4, 1040-2	5
1932	DNA-gold triangular nanoprism conjugates. 2008 , 4, 2176-80	57
1931	Sample preparation for the quick sizing of metal nanoparticles by atomic force microscopy. 2008 , 71, 870-9	7
1930	Design of gold nanoparticle-based colorimetric biosensing assays. 2008 , 9, 2363-71	636
1929	Photocatalytic cleavage of single TiO ₂ /DNA nanoconjugates. 2008 , 14, 1492-8	25
1928	Isomeric control of protein recognition with amino acid- and dipeptide-functionalized gold nanoparticles. 2008 , 14, 143-50	48
1927	Multivalent binding of small guest molecules and proteins to molecular printboards inside microchannels. 2008 , 14, 136-42	22
1926	Synthesis and properties of DNA complexes containing 2,2,6,6-tetramethyl-1-piperidinoxy (TEMPO) moieties as organic radical battery materials. 2008 , 14, 3250-9	44
1925	Dendrimers and DNA: combinations of two special topologies for nanomaterials and biology. 2008 , 14, 7422-32	118
1924	Self-assembling nanoparticles at surfaces and interfaces. 2008 , 9, 20-42	344
1923	Encapsulation of single small gold nanoparticles by diblock copolymers. 2008 , 9, 388-92	89
1922	Pluronic-stabilized gold nanoparticles: investigation of the structure of the polymer-particle hybrid. 2008 , 9, 2230-6	45
1921	Effect of surface chemistry modification of functional gold nanoparticles on the drug accumulation of cancer cells. 2008 , 86, 942-6	18
1920	Functionalization of Gold Nanoparticles by Iron(III) Complexes Derived from Schiff Base Ligands. 2008 , 2008, NA-NA	16
1919	Rapid and efficient identification of bacteria using gold-nanoparticle-poly(para-phenyleneethynylene) constructs. 2008 , 47, 2590-4	334
1918	Increasing the complexity of periodic protein nanostructures by the rolling-circle-amplified synthesis of aptamers. 2008 , 47, 126-30	94
1917	Gold nanoparticles coated with a thermosensitive hyperbranched polyelectrolyte: towards smart temperature and pH nanosensors. 2008 , 47, 2227-30	143
1916	Controlling colloidal superparticle growth through solvophobic interactions. 2008 , 47, 2208-12	156

1915	Spectroscopically enhancing electrical nanotraps. 2008 , 47, 1938-41	36
1914	Rolling circle amplification: applications in nanotechnology and biodetection with functional nucleic acids. 2008 , 47, 6330-7	436
1913	Sensitive NMR sensors detect antibodies to influenza. 2008 , 47, 4119-21	71
1912	Water-soluble nanocrystals through dual-interaction ligands. 2008 , 47, 3730-4	102
1911	Super robust nanoparticles for biology and biomedicine. 2008 , 47, 6750-3	43
1910	Low-noise stemless PNA beacons for sensitive DNA and RNA detection. 2008 , 47, 9555-9	100
1909	Nanocrystal synthesis in an amphibious bath: spontaneous generation of hydrophilic and hydrophobic surface coatings. 2008 , 47, 9916-21	31
1908	Hemoglobin-CdTe-CaCO ₃ @Polyelectrolytes 3D Architecture: Fabrication, Characterization, and Application in Biosensing. 2008 , 18, 3127-3136	39
1907	Streptavidin-Functionalized Three-Dimensional Ordered Nanoporous Silica Film for Highly Efficient Chemiluminescent Immunosensing. 2008 , 18, 3991-3998	64
1906	Synthesis of Functionalized Au Nanoparticles for Protein Detection. 2008 , 20, 430-434	63
1905	Nanobiomaterials and Nanoanalysis: Opportunities for Improving the Science to Benefit Biomedical Technologies. 2008 , 20, 867-877	166
1904	Enzyme-Based Multi-Component Optical Nanoprobes for Sequence-Specific Detection of DNA Hybridization. 2008 , 20, 497-500	118
1903	Functionalization of Gold Nanospheres and Nanorods by Chitosan Oligosaccharide Derivatives. 2008 , 20, 2068-2073	57
1902	Small-Molecule-Directed Assembly: A Gold Nanoparticle-Based Strategy for Screening of Homo-Adenine DNA Duplex Binders. 2008 , 20, 706-710	49
1901	Sensitivity Enhancement of Surface-Plasmon Resonance Imaging by Nanoarrayed Organothiols. 2008 , 20, 2352-2358	15
1900	Applications of Nanoparticles in Biology. 2008 , 20, 4225-4241	1241
1899	Effiziente Erkennung von Bakterien mit Goldnanopartikel-Poly(para-phenylenethinylen)-Konstrukten. 2008 , 120, 2628-2632	33
1898	Increasing the Complexity of Periodic Protein Nanostructures by the Rolling-Circle-Amplified Synthesis of Aptamers. 2008 , 120, 132-136	22

1897	Gold Nanoparticles Coated with a Thermosensitive Hyperbranched Polyelectrolyte: Towards Smart Temperature and pH Nanosensors. 2008 , 120, 2259-2262	9
1896	Controlling Colloidal Superparticle Growth Through Solvophobic Interactions. 2008 , 120, 2240-2244	11
1895	Spectroscopically Enhancing Electrical Nanotraps. 2008 , 120, 1964-1967	9
1894	Rolling-Circle-Amplifikation: Anwendungen in der Nanotechnologie und in der Biodetektion mit funktionellen Nucleinsäuren. 2008 , 120, 6428-6436	48
1893	Sensitive NMR Sensors Detect Antibodies to Influenza. 2008 , 120, 4187-4189	7
1892	Water-Soluble Nanocrystals Through Dual-Interaction Ligands. 2008 , 120, 3790-3794	14
1891	Hochstabile Nanopartikel für Biologie und Biomedizin. 2008 , 120, 6852-6855	9
1890	Stammlose PNA-Beacons für die empfindliche DNA- und RNA-Detektion mit geringem Hintergrundrauschen. 2008 , 120, 9697-9701	31
1889	Nanocrystal Synthesis in an Amphibious Bath: Spontaneous Generation of Hydrophilic and Hydrophobic Surface Coatings. 2008 , 120, 10064-10069	1
1888	Luminescent nanocrystals in phospholipid micelles for bioconjugation: an optical and structural investigation. 2008 , 325, 558-66	20
1887	Green fluorescent protein for in situ synthesis of highly uniform Au nanoparticles and monitoring protein denaturation. 2008 , 326, 129-37	19
1886	Jingle-bell-shaped ferrite hollow sphere with a noble metal core: Simple synthesis and their magnetic and antibacterial properties. 2008 , 181, 1650-1658	20
1885	Modern trends in polymer bioconjugates design. 2008 , 33, 1-39	465
1884	The architectures and surface behavior of highly branched molecules. 2008 , 33, 523-580	161
1883	DNA detection via programmed core-shell nanodot-assembly with concomitant fluorescence modulation. 2008 , 196, 94-98	
1882	Template-directed formation of luminescent lanthanide complexes: versatile tools for colorimetric identification of single nucleotide polymorphism. 2008 , 102, 1921-31	48
1881	Size-dependent interaction of gold nanoparticles with transport protein: A spectroscopic study. 2008 , 128, 1969-1974	55
1880	Conformation, thermodynamics and stoichiometry of HSA adsorbed to colloidal CdSe/ZnS quantum dots. 2008 , 1784, 1020-7	163

1879	Structural and optical characterization of colloidal Se nanoparticles prepared via the acidic decomposition of sodium selenosulfate. 2008 , 320, 169-174	23
1878	Detection of non-cross-linking interaction between DNA-modified gold nanoparticles and a DNA-modified flat gold surface using surface plasmon resonance imaging on a microchip. 2008 , 62, 71-6	22
1877	Challenge in Understanding Size and Shape Dependent Toxicity of Gold Nanomaterials in Human Skin Keratinocytes. 2008 , 463, 145-149	272
1876	Optical sensing of biomedically important polyionic drugs using nano-sized gold particles. 2008 , 23, 1285-90	82
1875	Ultrasensitive electrical detection of nucleic acids by hematin catalysed silver nanoparticle formation in sub-microgapped biosensors. 2008 , 24, 793-7	28
1874	Controlled antibody immobilization onto immunoanalytical platforms by synthetic peptide. 2008 , 374, 99-105	73
1873	Aptamer biosensor for protein detection using gold nanoparticles. 2008 , 373, 213-9	167
1872	FIT probes: peptide nucleic acid probes with a fluorescent base surrogate enable real-time DNA quantification and single nucleotide polymorphism discovery. 2008 , 375, 318-30	90
1871	Nanowire sensors for multiplexed detection of biomolecules. 2008 , 12, 522-8	131
1870	Selective recognition of fumarate from maleate with a gold nanoparticle-based colorimetric sensing system. 2008 , 49, 3652-3655	24
1869	Electrochemical analysis with nanoparticle-based biosystems. 2008 , 27, 568-584	92
1868	Synthesis, characterization, and in vivo diagnostic applications of hyaluronic acid immobilized gold nanopores. 2008 , 29, 4709-18	163
1867	In situ formation of gold nanoparticles with a thermoresponsive block copolymer corona. 2008 , 317, 764-767	11
1866	Continuous thin gold films electroless deposited on fibrous mats of polyacrylonitrile and their electrocatalytic activity towards the oxidation of methanol. 2008 , 53, 5174-5179	54
1865	Fabrication of $\{^{198}\text{Au}0\}$ radioactive composite nanodevices and their use for nanobrachytherapy. 2008 , 4, 57-69	68
1864	Determination of size and concentration of gold nanoparticles from extinction spectra. 2008 , 80, 6620-5	206
1863	Nanocatalyst-based assay using DNA-conjugated Au nanoparticles for electrochemical DNA detection. 2008 , 24, 9883-8	65
1862	A DNA-gold nanoparticle-based colorimetric competition assay for the detection of cysteine. 2008 , 8, 529-33	437

1861	Ultrasensitive optical biodiagnostic methods using metallic nanoparticles. 2008 , 3, 215-32		51
1860	Selective colorimetric sensing of geometrical isomers of dicarboxylates in water by using functionalized gold nanoparticles. 2008 , 3, 1962-7		20
1859	Dextran-coated gold nanoparticles for the assessment of antimicrobial susceptibility. 2008 , 80, 1033-8		103
1858	Ultrasensitive flow injection chemiluminescence detection of DNA hybridization using signal DNA probe modified with Au and CuS nanoparticles. 2008 , 80, 7206-12		165
1857	Nanoalloys: from theory to applications of alloy clusters and nanoparticles. <i>Chemical Reviews</i> , 2008 , 108, 845-910	68.1	2867
1856	Preparation of alkanethiolate-functionalized core/shell Fe ₃ O ₄ @Au nanoparticles and its interaction with several typical target molecules. 2008 , 80, 9091-6		149
1855	Digital information processing in molecular systems. <i>Chemical Reviews</i> , 2008 , 108, 3481-548	68.1	714
1854	Resolving the structure of ligands bound to the surface of superparamagnetic iron oxide nanoparticles by high-resolution magic-angle spinning NMR spectroscopy. 2008 , 130, 12712-24		59
1853	Nanoscaling laws of magnetic nanoparticles and their applicabilities in biomedical sciences. 2008 , 41, 179-89		681
1852	Sensitivity by combination: immuno-PCR and related technologies. 2008 , 133, 702-18		112
1851	Protein- and peptide-directed syntheses of inorganic materials. <i>Chemical Reviews</i> , 2008 , 108, 4935-78	68.1	841
1850	Triazolylpyrenes: synthesis, fluorescence properties, and incorporation into DNA. 2008 , 10, 2011-4		24
1849	Formation of surface layers on silver nanoparticles in aqueous and water-organic media. 2008 , 70, 71-76		36
1848	Bioconjugated quantum dots for in vivo molecular and cellular imaging. 2008 , 60, 1226-1240		965
1847	Gold nanoparticles in delivery applications. 2008 , 60, 1307-1315		2036
1846	Antibacterial activity of ZnO nanoparticle suspensions on a broad spectrum of microorganisms. 2008 , 279, 71-6		1142
1845	DNA-programmable nanoparticle crystallization. 2008 , 451, 553-6		1297
1844	In vivo tumor targeting and spectroscopic detection with surface-enhanced Raman nanoparticle tags. 2008 , 26, 83-90		1945

1843	Manufactured nanoparticles: an overview of their chemistry, interactions and potential environmental implications. 2008 , 400, 396-414	764
1842	Bifunctional Nanostructures Composed of Fluorescent Core and Metal Shell Subdomains with Controllable Geometry. 2008 , 112, 11205-11210	11
1841	Simple and generalized synthesis of oxide-metal heterostructured nanoparticles and their applications in multimodal biomedical probes. 2008 , 130, 15573-80	156
1840	Bioadhesive nanoareas in antifouling matrix for highly efficient affinity sensors. 2008 ,	
1839	Sustainability as an emerging design criterion in nanoparticle synthesis and applications. 2008 , 18, 2173	176
1838	Electrochemical DNA biosensor based on nanoporous gold electrode and multifunctional encoded DNA-Au bio bar codes. 2008 , 80, 9124-30	282
1837	Enzyme colorimetric assay using unmodified silver nanoparticles. 2008 , 80, 7051-5	271
1836	Charge transport in nanoparticle assemblies. <i>Chemical Reviews</i> , 2008 , 108, 4072-124	68.1 415
1835	Nanoparticle-based biosensors and bioassays. 2008 , 441-457	3
1834	Split DNA enzyme for visual single nucleotide polymorphism typing. 2008 , 130, 2934-5	178
1833	Surfactant-Mediated Fabrication of Optical Nanoprobes. 2008 , 189-233	4
1832	Functional gold nanoparticle-peptide complexes as cell-targeting agents. 2008 , 24, 10293-7	98
1831	Azide-derivatized gold nanorods: functional materials for "click" chemistry. 2008 , 24, 266-72	148
1830	Using cylindrical domains of block copolymers to self-assemble and align metallic nanowires. 2008 , 2, 489-501	266
1829	Shape-dependent electrocatalytic activity of platinum nanostructures. 2008 , 18, 5858	157
1828	Label-Free SERS Detection of Small Proteins Modified to Act as Bifunctional Linkers. 2008 , 112, 4880-4883	90
1827	Bio-nanotechnology and photodynamic therapy--state of the art review. 2008 , 5, 19-28	128
1826	Imprinting of molecular recognition sites through electropolymerization of functionalized Au nanoparticles: development of an electrochemical TNT sensor based on pi-donor-acceptor interactions. 2008 , 130, 9726-33	267

1825	Chemical sensing and imaging with metallic nanorods. 2008 , 544-57	460
1824	Nanoplasmonic biosensing with focus on short-range ordered nanoholes in thin metal films. 2008 , 3, FD30-40	59
1823	Gold nanoparticles in biology: beyond toxicity to cellular imaging. 2008 , 41, 1721-30	1487
1822	A facile in situ generation of dithiocarbamate ligands for stable gold nanoparticle-oligonucleotide conjugates. 2008 , 2140-2	61
1821	Monodisperse Protein Stabilized Gold Nanoparticles via a Simple Photochemical Process. 2008 , 112, 12282-12290	65
1820	Chemical functionalization and modification of surface-bound cystamine- γ -glycine monolayers on gold nanoparticles. 2008 , 86, 368-375	5
1819	Electrochemical DNAzyme sensor for lead based on amplification of DNA-Au bio-bar codes. 2008 , 80, 6323-8	246
1818	Fe ₃ O ₄ magnetic nanoparticles as peroxidase mimetics and their applications in H ₂ O ₂ and glucose detection. 2008 , 80, 2250-4	1114
1817	Multifunctional Magnetic Silver Nanoshells with Sandwichlike Nanostructures. 2008 , 112, 8870-8874	48
1816	High-sensitivity pesticide detection via silicon nanowires-supported acetylcholinesterase-based electrochemical sensors. 2008 , 93, 023113	42
1815	Paper-based bioassays using gold nanoparticle colorimetric probes. 2008 , 80, 8431-7	282
1814	Epitaxial growth of heterogeneous metal nanocrystals: from gold nano-octahedra to palladium and silver nanocubes. 2008 , 130, 6949-51	642
1813	Chapter 5 Chemical Methods for Preparation of Nanoparticles in Solution. 2008 , 5, 113-141	23
1812	Nanotechnology and cancer. 2008 , 59, 251-65	295
1811	Nanomaterials for Application in Medicine and Biology. 2008 ,	14
1810	Quantum Dots for Cancer Imaging. 2008 , 463-485	1
1809	Multifunction Gd ₂ O ₃ :Eu nanocrystals produced by solution combustion synthesis: Structural, luminescent, and magnetic characterization. 2008 , 103, 104303	46
1808	Environmentally friendly synthesis of highly monodisperse biocompatible gold nanoparticles with urchin-like shape. 2008 , 24, 1058-63	116

1807	An electrochemical immunosensor using p-aminophenol redox cycling by NADH on a self-assembled monolayer and ferrocene-modified Au electrodes. 2008 , 133, 1599-604	40
1806	A facile polyol route to uniform gold octahedra with tailorable size and their optical properties. 2008 , 2, 1760-9	217
1805	Quantum dot nanobarcodes: epitaxial assembly of nanoparticle-polymer complexes in homogeneous solution. 2008 , 130, 5286-92	109
1804	Seedless, Surfactantless Room Temperature Synthesis of Single Crystalline Fluorescent Gold Nanoflowers with Pronounced SERS and Electrocatalytic Activity. 2008 , 20, 3546-3548	136
1803	Laser-induced modification of polymeric beads coated with gold nanoparticles. 2008 , 19, 305301	30
1802	Gold nanoparticle superlattices. 2008 , 37, 1871-83	178
1801	Application of Moveable Suspensions of Solid Particles in Flow Analysis. 79-106	
1800	Thermodynamically controlled separation of polyvalent 2-nm gold nanoparticle-oligonucleotide conjugates. 2008 , 130, 5430-1	36
1799	Tailored magnetic nanoparticles for direct and sensitive detection of biomolecules in biological samples. 2008 , 8, 3423-8	92
1798	A one-step highly sensitive method for DNA detection using dynamic light scattering. 2008 , 130, 8138-9	165
1797	. 2008 , 7, 651-667	168
1796	Molecular beacon-metal nanowire interface: effect of probe sequence and surface coverage on sensor performance. 2008 , 24, 9162-71	41
1795	DNA-controlled assembly of soft nanoparticles. 2008 , 130, 10462-3	93
1794	A One-Pot Method to Prepare Gold Nanoparticle Chains with Chitosan. 2008 , 112, 319-323	60
1793	Integrated nanosensors to determine levels and functional activity of human telomerase. 2008 , 10, 1066-72	33
1792	Peptide antisense nanoparticles. 2008 , 105, 17222-6	96
1791	Water-soluble gold nanoparticles protected by fluorinated amphiphilic thiolates. 2008 , 130, 15678-82	69
1790	Interfacial Processes and Molecular Aggregation of Surfactants. 2008 ,	10

1789	Self-Assembled Collagen-like Peptide Fibers as Templates for Metallic Nanowires. 2008 , 18, 3865	55
1788	DNA-Based Synthesis and Assembly of Organized Iron Oxide Nanostructures. 2008 , 39-57	2
1787	Gold nanoparticle-based immunoassay by using non-stripping chemiluminescence detection. 2008 , 133, 1250-5	49
1786	Nanoparticles in Biomedical Imaging. 2008 ,	23
1785	Electron and energy transfer mechanisms to switch the luminescence of semiconductor quantum dots. 2008 , 18, 5577	40
1784	Bent-core liquid crystal (LC) decorated gold nanoclusters: synthesis, self-assembly, and effects in mixtures with bent-core LC hosts. 2008 , 18, 2983	71
1783	On doping CdS/ZnS core/shell nanocrystals with Mn. 2008 , 130, 15649-61	157
1782	Proton-sponge coated quantum dots for siRNA delivery and intracellular imaging. 2008 , 130, 9006-12	360
1781	One-pot synthesis of silica-coated magnetic plasmonic tracer nanoparticles. 2008 , 6140-2	29
1780	Gold nanorod assisted near-infrared plasmonic photothermal therapy (PPTT) of squamous cell carcinoma in mice. 2008 , 269, 57-66	925
1779	TiO ₂ nanoparticles promote beta-amyloid fibrillation in vitro. 2008 , 373, 315-8	181
1778	Noble metals on the nanoscale: optical and photothermal properties and some applications in imaging, sensing, biology, and medicine. 2008 , 41, 1578-86	3252
1777	Water solubilization of hydrophobic nanocrystals by means of poly(maleic anhydride-alt-1-octadecene). 2008 , 18, 1991	123
1776	DNAzymes for sensing, nanobiotechnology and logic gate applications. 2008 , 37, 1153-65	680
1775	Nanostructured plasmonic sensors. <i>Chemical Reviews</i> , 2008 , 108, 494-521	68.1 1995
1774	Sub-femtomolar electrochemical detection of DNA hybridization based on latex/gold nanoparticle-assisted signal amplification. 2008 , 80, 6779-84	92
1773	Nanoskiving: a new method to produce arrays of nanostructures. 2008 , 41, 1566-77	122
1772	Multi-modal ¹⁹ F NMR probe using perfluorinated cubic silsesquioxane-coated silica nanoparticles for monitoring enzymatic activity. 2008 , 6176-8	61

1771	Gold nanoparticle-based assays for the detection of biologically relevant molecules. 2008 , 3, 543-53	29
1770	A new generation of sensors based on extraordinary optical transmission. 2008 , 41, 1049-57	423
1769	Hydroquinone Synthesis of Silver Nanoparticles: A Simple Model Reaction To Understand the Factors That Determine Their Nucleation and Growth. 2008 , 8, 1377-1383	28
1768	One-Step Green Synthesis and Stabilization of Au and Ag Nanoparticles Using Ionic Polymers. 2008 , 20, 5146-5153	44
1767	Ordered macroporous bimetallic nanostructures: design, characterization, and applications. 2008 , 41, 244-53	128
1766	Synthesis of carbohydrate-conjugated nanoparticles and quantum dots. 2008 , 24, 6215-9	93
1765	Nanoelectrochemistry: metal nanoparticles, nanoelectrodes, and nanopores. <i>Chemical Reviews</i> , 2008 , 108, 2688-720	68.1 954
1764	Nanoparticle-based strategies for high-performance biodetection. 2008 , 136, S760-S761	
1763	Nanomaterials for biomedical applications. 2008 , 3, 467-9	30
1762	Is it possible to achieve profitability considering sustainability, social and regulatory issues together?. 2008 , 136, S761-S762	
1761	Dithiolane ligands for semiconductor quantum dots. 2008 , 18, 3940	11
1760	Nanofiber formation from sequence-selective DNA-templated self-assembly of a thymidylic acid-appended bolaamphiphile. 2008 , 5770-2	10
1759	Luminescence quenching in supramolecular assemblies of quantum dots and bipyridinium dications. 2008 , 18, 2022	31
1758	Design of a gold nanoprobe for rapid and portable mercury detection with the naked eye. 2008 , 4885-7	139
1757	Control over binding stoichiometry and specificity in the supramolecular immobilization of cytochrome c on a molecular printboard. 2008 , 6, 1553-7	18
1756	A double-stranded molecular probe for homogeneous nucleic acid analysis. 2008 , 133, 1013-9	24
1755	Tumor microvasculature targeting with dendrimer-entrapped gold nanoparticles. 2008 , 4, 2160-2163	58
1754	Disk micelles from amphiphilic Janus gold nanoparticles. 2008 , 697-9	41

1753	Zwitterionic phosphorylcholine as a better ligand for stabilizing large biocompatible gold nanoparticles. 2008 , 3058-60	72
1752	Controlled synthesis and characterization of the enhanced local field of octahedral Au nanocrystals. 2008 , 6120-2	36
1751	Nanofluidics: Systems and Applications. 2008 , 8, 441-450	78
1750	Au-Ag template stripped pattern for scanning probe investigations of DNA arrays produced by dip pen nanolithography. 2008 , 24, 13212-7	9
1749	Elucidating the role of surface hydrolysis in preparing organosilane nanostructures via particle lithography. 2008 , 8, 1916-22	70
1748	A facile method of forming nanoscale patterns on poly(ethylene glycol)-based surfaces by self-assembly of randomly grafted block copolymer brushes. 2008 , 24, 8303-8	52
1747	Dual-stage DNA sensing: recognition and detection. 2008 , 80, 9443-9	16
1746	Topological Selectivity in a Supramolecular Self-Assembled Host-Guest Network at the Solid-Liquid Interface. 2008 , 112, 15236-15240	13
1745	Insight into Chloride Induced Aggregation of DMAP-Monolayer Protected Gold Nanoparticles Using the Thermodynamics of Ideally Polarized Electrodes. 2008 , 112, 2872-2880	19
1744	Plasmon-Coupled Fluorescence Probes: Effect of Emission Wavelength on Fluorophore-Labeled Silver Particles. 2008 , 112, 9172-9180	21
1743	Fluorescence recovery assay for the detection of protein-DNA binding. 2008 , 80, 5616-21	48
1742	Assessment of Morphological and Optical Properties of Molecularly Mediated Thin Film Assembly of Gold Nanoparticles. 2008 , 112, 2448-2455	20
1741	The effect of gold nanorods on cell-mediated collagen remodeling. 2008 , 8, 3409-12	42
1740	Preferential trapping of C60 in nanomesh voids. 2008 , 130, 2720-1	56
1739	Assembly of bionanostructures onto beta-cyclodextrin molecular printboards for antibody recognition and lymphocyte cell counting. 2008 , 130, 6964-73	61
1738	Colorimetric sensitivity of gold nanoparticles: minimizing interparticular repulsion as a general approach. 2008 , 80, 6560-6	48
1737	Improving the sensitivity of immunoassays by tuning gold nanoparticles to the tipping point. 2008 , 80, 6001-5	15
1736	Single-Molecule Studies on Fluorescently Labeled Silver Particles: Effects of Particle Size. 2007 , 112, 18	102

1735	Site-specific immobilization of CMP-sialic acid synthetase on magnetic nanoparticles and its use in the synthesis of CMP-sialic acid. 2008 , 1308-10	25
1734	DNA linker-mediated crystallization of nanocolloids. 2008 , 130, 2442-3	64
1733	Synthesis and Characterization of Fluorescently Doped Mesoporous Nanoparticles for Two-Photon Excitation. 2008 , 20, 2174-2183	45
1732	Spontaneous Formation of Functionalized Dendrimer-Stabilized Gold Nanoparticles. 2009 , 112, 8251-8258	105
1731	Intraparticle surface plasmon coupling in quasi-one-dimensional nanostructures. 2008 , 8, 800-4	55
1730	Effect of bio-inspired multi-stage regulations for diagnostic molecular automata. 2008 ,	
1729	Single-cell fluorescence imaging using metal plasmon-coupled probe 2: single-molecule counting on lifetime image. 2008 , 8, 1179-86	46
1728	Monodisperse Raspberry-Like Gold Submicrometer Spheres: Large-Scale Synthesis and Interface Assembling for Colloid Sphere Array. 2008 , 8, 3581-3585	14
1727	Photochromism and Optical Property of Gold Nanoparticles Covered with Low-Polydispersity Diarylethene Polymers. 2008 , 41, 3995-4002	54
1726	Optical Properties and Biosensor Application of Ultrathin Silver Films Prepared by Oblique Angle Deposition. 2008 , 112, 16784-16791	39
1725	Platinum Carbonyl Clusters: Double Emitting Quantum Dots. 2008 , 112, 18722-18726	9
1724	Polysaccharide templated silver nanowire for ultrasensitive electrical detection of nucleic acids. 2008 , 80, 7213-7	39
1723	Electrical detection of oligonucleotide using an aggregate of gold nanoparticles as a conductive tag. 2008 , 80, 9387-94	48
1722	In-Situ Measurement of Colloidal Gold Adsorption on Functionalized Silica Surfaces. 2008 , 112, 6462-6468	29
1721	Helical nanofibers of self-assembled bipolar phospholipids as template for gold nanoparticles. 2008 , 112, 4506-11	49
1720	"Three-dimensional hybridization" with polyvalent DNA-gold nanoparticle conjugates. 2008 , 130, 12192-200	90
1719	Two-dimensional pentacene:3,4,9,10-perylenetetracarboxylic dianhydride supramolecular chiral networks on Ag(111). 2008 , 130, 12285-9	57
1718	Block copolymer-mediated synthesis of size-tunable gold nanospheres and nanoplates. 2008 , 24, 13186-96	48

1717	Mass Spectrometrically Detected Statistical Aspects of Ligand Populations in Mixed Monolayer Au25L18 Nanoparticles. 2008 , 112, 20276-20283	79
1716	Amplified transduction of biomolecular interactions based on the use of nanomaterials. 2008 , 109, 239-54	1
1715	Detection of bacteria based on the thermomechanical noise of a nanomechanical resonator: origin of the response and detection limits. 2008 , 19, 035503	55
1714	Diagnostic devices as biomaterials: a review of nucleic acid and protein microarray surface performance issues. 2008 , 19, 725-53	63
1713	Facile SNP detection using bifunctional, cross-linking oligonucleotide probes. 2008 , 36, e31	33
1712	A Comparison of 2-part and 3-part Nanoparticle-Based Sensor. 2008 , 1138, 1	1
1711	Chip-based molecular diagnostics using metal nanoparticles. 2008 , 2, 813-28	7
1710	Synthesis and Characterization of μ bi[2,4-dinitrophenyl (DNP)] poly(2-methoxystyrene) Functional Polymers. Initial Evaluation of the Interaction of the Functional Polymers with RBL Mast Cells. 2008 , 45, 664-671	6
1709	Adsorption Equilibrium and Kinetics of Microorganisms on Single-Wall Carbon Nanotubes. 2008 , 8, 954-962	59
1708	Antibody-functionalized nano test tubes target breast cancer cells. 2008 , 3, 283-92	22
1707	Pluronic/chitosan shell cross-linked nanocapsules encapsulating magnetic nanoparticles. 2008 , 19, 1571-83	22
1706	Observation of spectral anisotropy of gold nanoparticles. 2008 , 129, 044503	21
1705	Ligand removal from soluble CdTe nanocrystals evidenced by time-resolved photoluminescence spectroscopy. 2008 , 41, 102004	16
1704	Miniaturized Sensor for Microbial Pathogens DNA and Chemical Toxins. 2008 , 8, 693-700	20
1703	Nanostructure design: methods and protocols. Preface. 2008 , 474, v-vii	6
1702	Gold nanoparticle-based surface enhanced Raman scattering spectroscopic assay for the detection of protein-protein interactions. 2008 , 24, 907-10	41
1701	Localized Surface Plasmon Resonance (LSPR) Spectroscopy in Biosensing. 2008 ,	2
1700	Emergence of nanomedical devices for the diagnosis and treatment of cancer: the journey from basic science to commercialisation. 2008 , 7, 290	

- 1699 The Role of Adsorption Species in the Formation of Ag Nanostructures by a Microwave-Polyol Route. **2008**, 81, 393-400 19
- 1698 Modeling of Biosensor Interfaces. **2008**,
- 1697 Nanosphere Lithography-Based Chemical Nanopatterns for Biosensor Design. **2008**,
- 1696 NANOPARTICLES FOR BIOSENSORS. **2008**, 583-621 5
- 1695 Viral Chip Technology in Genomic Medicine. **2009**, 538-561
- 1694 Biologically Templated Nanostructure Assemblies. **2009**,
- 1693 . **2009**, 17
- 1692 Therapeutic Strategies. 293-334
- 1691 . **2009**, 16
- 1690 . **2009**, 1
- 1689 Complementary Analysis of Metallic Templates Fabricated by Nanosphere Lithography. **2009**, 7, 341-348 3
- 1688 Philosophy of Bioinorganic Photochemistry. 1-12
- 1687 Nanotechnology in Clinical and Translational Research. **2009**, 123-135
- 1686 Functional Supramolecular Hybrid Materials. **2009**,
- 1685 Identification, characterization and utilization of tumor cell selectin ligands in the design of colon cancer diagnostics. **2009**, 46, 207-25 35
- 1684 Multiplexed highly sensitive detections of cancer biomarkers in thermal space using encapsulated phase change nanoparticles. **2009**, 95, 043701 17
- 1683 Surface relief grating formation on nano-objects. **2009**, 95, 053102 13
- 1682 Encoding and decoding nanoscale thermal barcodes for ultrahigh capacity identification systems. **2009**, 95, 233101 14

- 1681 Composites of silver nanoparticles and poly(vinylidene fluoride-trifluoroethylene)copolymer: Preparation as well as structural and electrical characterization. **2009**, 1182, 41
- 1680 Hybrid electrokinetics for separation, mixing, and concentration of colloidal particles. **2009**, 20, 165701 22
- 1679 Electrochemical Nanoparticle-Based Sensors. **2009**, 339-353 1
- 1678 Elimination of Quantum Dots Cell Uptake. **2009**, 1236, 1
- 1677 Semiconductor Quantum Dots for Cell Imaging. **2009**, 1237, 1
- 1676 Chapter 12 - DNA-controlled assembly of liposomes in diagnostics. **2009**, 464, 233-48 20
- 1675 A conversation with Prof. Chad Mirkin: nanomaterials architect. **2009**, 3, 1310-7 5
- 1674 Linear assembly of Au nanorods using biomimetic ligands. **2009**, 25, 1572-81 52
- 1673 Conventional and Real-Time Polymerase Chain Reaction. **2009**, 33-49 4
- 1672 [Mesoporous silica nanoparticles for two-photon fluorescence]. **2009**, 25, 744-6
- 1671 Applications of nanomaterials in electrogenerated chemiluminescence biosensors. **2009**, 9, 674-95 88
- 1670 Quantum Dot-based Sensors for Proteins. **2009**, 25, 1-8 8
- 1669 Cell Uptake of Nanoparticles. **2009**, 25, 9-17
- 1668 Detection of anthrax toxin by an ultrasensitive immunoassay using europium nanoparticles. **2009**, 16, 408-13 88
- 1667 Controlled synthesis of Au nanoplates at the liquid/liquid interface. **2009**, 63, 480-482 3
- 1666 Palladium nanoparticle seeded electroless metallization of Al/Al₂O₃ surfaces. **2009**, 63, 1451-1454 11
- 1665 Gold nanoparticle enhanced immuno-PCR for ultrasensitive detection of Hantaan virus nucleocapsid protein. **2009**, 346, 64-70 63
- 1664 A washing-free and amplification-free one-step homogeneous assay for protein detection using gold nanoparticle probes and dynamic light scattering. **2009**, 349, 38-44 72

1663	The Metal Nanoparticle Plasmon Band as a Powerful Tool for Chemo- and Biosensing. 137-176	4
1662	Ionic-Liquid-Doped Polyaniline Inverse Opals: Preparation, Characterization, and Application for the Electrochemical Impedance Immunoassay of Hepatitis B Surface Antigen. 2009 , 19, 3120-3128	61
1661	Gold Nanoparticles Stabilized by Acetylene-Functionalized Multidentate Thioether Ligands: Building Blocks for Nanoparticle Superstructures. 2009 , 19, 3497-3506	40
1660	Highly Cooperative Behavior of Peptide Nucleic Acid-Linked DNA-Modified Gold-Nanoparticle and Comb-Polymer Aggregates. 2009 , 21, 706-709	40
1659	Inorganic Nanoparticles for MRI Contrast Agents. 2009 , 21, 2133-2148	1446
1658	Gold nanorods: from synthesis and properties to biological and biomedical applications. 2009 , 21, 4880-4910	1473
1657	3D Ordered Gold Strings by Coating Nanoparticles with Mesogens. 2009 , 21, 1746-1750	117
1656	Nonblinking and Nonbleaching Upconverting Nanoparticles as an Optical Imaging Nanoprobe and T1 Magnetic Resonance Imaging Contrast Agent. 2009 , 21, 4467-4471	501
1655	Bindungsmechanismen in supramolekularen Komplexen. 2009 , 121, 3982-4036	177
1654	Formation of Patches on 3D SAMs Driven by Thiols with Immiscible Chains Observed by ESR Spectroscopy. 2009 , 121, 3106-3110	10
1653	Silver Nanoparticle Formation in Different Sizes Induced by Peptides Identified within Split-and-Mix Libraries. 2009 , 121, 3715-3718	13
1652	Nano-conjugate fluorescence probe for the discrimination of phosphate and pyrophosphate. 2009 , 15, 449-56	46
1651	Self-organization, optical, and electrical properties of alpha-quinquethiophene-dinucleotide conjugates. 2009 , 15, 1876-85	19
1650	Gold nanolabels for new enhanced chemiluminescence immunoassay of alpha-fetoprotein based on magnetic beads. 2009 , 15, 4704-9	139
1649	Radial-position-controlled doping of CdS/ZnS core/shell nanocrystals: surface effects and position-dependent properties. 2009 , 15, 3186-97	60
1648	Two base pair duplexes suffice to build a novel material. 2009 , 10, 1335-9	58
1647	Chemical approaches to DNA nanotechnology. 2009 , 10, 2420-43	161
1646	Assembly of Two-Dimensional DNA Crystals Carrying N4-[2-(tert-Butyldisulfanyl)ethyl]cytosine Residues. 2009 , 92, 1466-1472	7

1645	Colorimetric Sensing of Adenosine Based on Aptamer Binding Inducing Gold Nanoparticle Aggregation. 2009 , 27, 1855-1859	19
1644	Analysis of non-covalent bioconjugation of colloidal nanoparticles by means of atomic force microscopy and data clustering. 2009 , 10, 1483-91	16
1643	Chiral gold nanoparticles. 2009 , 10, 483-92	298
1642	Selectively deposited silver coatings on gold-capped silicon nanowires for surface-enhanced Raman spectroscopy. 2009 , 10, 1219-24	13
1641	Multilayer structures of self-assembled gold nanoparticles as a unique SERS and SEIRA substrate. 2009 , 10, 1106-11	28
1640	Stabilization and large nonlinearity of gold nanoparticles functionalized with a pi-conjugated polymer. 2009 , 10, 2058-65	11
1639	Interaction of cytidine 5'-monophosphate with Au(111): an in situ infrared spectroscopic study. 2009 , 10, 1649-55	12
1638	In situ plasmon-heating-induced generation of Au/TiO ₂ "hot spots" on colloidal crystals. 2009 , 10, 1017-22	29
1637	Plasmonically controlled nucleic acid dehybridization with gold nanoprisms. 2009 , 10, 1461-5	57
1636	Growth of spindle-shaped silver nanoparticles in SDS solutions. 2009 , 44, 841-844	10
1635	Simple extraction-solvothermal synthesis of single-crystalline silver microplates. 2009 , 44, 857-860	8
1634	Gold nanoparticle-enhanced capillary electrophoresis-chemiluminescence assay of trace uric acid. 2009 , 30, 2676-80	26
1633	Etching and Growth: An Intertwined Pathway to Silver Nanocrystals with Exotic Shapes. 2009 , 121, 4918-4921	14
1632	Highly Water-Dispersible Biocompatible Magnetite Particles with Low Cytotoxicity Stabilized by Citrate Groups. 2009 , 121, 5989-5993	138
1631	Ultrasensitive and Selective Colorimetric DNA Detection by Nicking Endonuclease Assisted Nanoparticle Amplification. 2009 , 121, 6981-6984	28
1630	Ultrasensitive Detection of Bacteria Using Core-Shell Nanoparticles and an NMR-Filter System. 2009 , 121, 5767-5770	17
1629	Plasmon-Mediated Synthesis of Silver Triangular Bipyramids. 2009 , 121, 7927-7931	40
1628	Multimodal Gadolinium-Enriched DNA-Gold Nanoparticle Conjugates for Cellular Imaging. 2009 , 121, 9307-9311	22

1627	Nanoparticle-Based, Fluorous-Tag-Driven DNA Detection. 2009 , 121, 9667-9670	4
1626	Binding mechanisms in supramolecular complexes. 2009 , 48, 3924-77	910
1625	Formation of patches on 3D SAMs driven by thiols with immiscible chains observed by ESR spectroscopy. 2009 , 48, 3060-4	58
1624	Silver nanoparticle formation in different sizes induced by peptides identified within split-and-mix libraries. 2009 , 48, 3661-4	58
1623	Etching and growth: an intertwined pathway to silver nanocrystals with exotic shapes. 2009 , 48, 4824-7	68
1622	Highly water-dispersible biocompatible magnetite particles with low cytotoxicity stabilized by citrate groups. 2009 , 48, 5875-9	703
1621	Ultrasensitive and selective colorimetric DNA detection by nicking endonuclease assisted nanoparticle amplification. 2009 , 48, 6849-52	355
1620	Ultrasensitive detection of bacteria using core-shell nanoparticles and an NMR-filter system. 2009 , 48, 5657-60	168
1619	Plasmon-mediated synthesis of silver triangular bipyramids. 2009 , 48, 7787-91	141
1618	Multimodal gadolinium-enriched DNA-gold nanoparticle conjugates for cellular imaging. 2009 , 48, 9143-7	159
1617	Nanoparticle-based, fluoruous-tag-driven DNA detection. 2009 , 48, 9503-6	39
1616	Electrochemical sensors based on metal and semiconductor nanoparticles. 2009 , 165, 1-22	179
1615	A method for fabricating protein patterns on the octadecyltrichlorosilane(OTS) surface through paper swabbing. 2009 , 109, 1023-8	6
1614	Fluorescent bio-barcode DNA assay for the detection of Salmonella enterica serovar Enteritidis. 2009 , 24, 1377-81	92
1613	Label-free optical biosensors based on Au ₂ S-coated gold nanorods. 2009 , 24, 3025-9	16
1612	Label-free and homogeneous DNA hybridization detection using gold nanoparticles-based chemiluminescence system. 2009 , 24, 3581-6	70
1611	Highly sensitive immunoassay based on Raman reporter-labeled immuno-Au aggregates and SERS-active immune substrate. 2009 , 25, 826-31	124
1610	A new strategy for highly sensitive immunoassay based on single-particle mode detection by inductively coupled plasma mass spectrometry. 2009 , 20, 1096-103	79

1609	Molecular and nanoparticle postcolumn reagents for assay of low-molecular-mass biothiols using high-performance liquid chromatography. 2009 , 877, 3358-65	15
1608	Synthesis and characterization of gold/polypyrrole film composite. 2009 , 44, 6392-6397	12
1607	Fluorescence quenching of 1,4-dihydroxy-2,3-dimethyl-9,10-anthraquinone by silver nanoparticles: size effect. 2009 , 19, 3-10	23
1606	On the Enhanced Antibacterial Activity of Antibiotics Mixed with Gold Nanoparticles. 2009 , 4, 794-801	157
1605	Fabrication of Anti-human Cardiac Troponin I Immunogold Nanorods for Sensing Acute Myocardial Damage. 2009 , 4, 1428-33	47
1604	Design of a carbon nanotube/magnetic nanoparticle-based peroxidase-like nanocomplex and its application for highly efficient catalytic oxidation of phenols. 2009 , 2, 617-623	129
1603	Bio-inspired colorimetric detection of Hg ²⁺ and Pb ²⁺ heavy metal ions using Au nanoparticles. 2009 , 394, 33-46	180
1602	Surface-enhanced Raman scattering for protein detection. 2009 , 394, 1719-27	293
1601	Electrochemical immunoassay using quantum dot/antibody probe for identification of cyanobacterial hepatotoxin microcystin-LR. 2009 , 394, 2173-81	51
1600	Rapid and efficient synthesis of colloidal gold nanoparticles by arc discharge method. 2009 , 96, 423-428	30
1599	Catalyst-functionalized nanomaterials. 2009 , 1, 35-46	11
1598	Controlled assembly of vesicle-based nanocontainers on layer-by-layer particles via DNA hybridization. 2009 , 5, 320-3	30
1597	Addressable microfluidic polymer chip for DNA-directed immobilization of oligonucleotide-tagged compounds. 2009 , 5, 1547-52	29
1596	An intrinsically fluorescent recognition ligand scaffold based on chaperonin protein and semiconductor quantum-dot conjugates. 2009 , 5, 1036-42	22
1595	Sequence-specific HCV RNA quantification using the size-dependent nonlinear optical properties of gold nanoparticles. 2009 , 5, 839-45	93
1594	Single-molecule investigations of a photoswitchable nanodevice. 2009 , 5, 1169-75	12
1593	Colorimetric protein sensing by controlled assembly of gold nanoparticles functionalized with synthetic receptors. 2009 , 5, 2445-52	101
1592	Synthetically programmable DNA binding domains in aggregates of DNA-functionalized gold nanoparticles. 2009 , 5, 2156-61	28

1591	Complementary electrical and spectroscopic detection assays with on-wire-lithography-based nanostructures. 2009 , 5, 2537-40	19
1590	Modulation of DNA polymerases with gold nanoparticles and their applications in hot-start PCR. 2009 , 5, 2597-600	49
1589	Drivers of biodiagnostic development. 2009 , 462, 461-4	614
1588	DNA nanotechnology: Hot and sticky or cold and aloof. 2009 , 8, 539-40	1
1587	A highly sensitive and selective diagnostic assay based on virus nanoparticles. 2009 , 4, 259-64	147
1586	Preparation, Characterization, and Photocatalytic Properties of CaNb ₂ O ₆ Nanoparticles. 2009 , 92, 506-510	20
1585	Spectroscopic studies of plasmonic interactions in colloidal dimers fabricated by convective-capillary force assembly. 2009 , 86, 1089-1092	18
1584	Applications of nanomaterials inside cells. 2009 , 4, 37-51	200
1583	Silver nanoparticles: green synthesis and their antimicrobial activities. 2009 , 145, 83-96	2615
1582	Convergent synthesis of oligomers of triazole-linked DNA analogue (TLDNA) in solution phase. 2009 , 50, 4101-4103	36
1581	Biomorphic mineralization: From biology to materials. 2009 , 54, 542-659	269
1580	High content analysis of the biocompatibility of nickel nanowires. 2009 , 321, 1341-1345	68
1579	Gold nanoparticle probes. 2009 , 253, 1607-1618	319
1578	Self-assembly characteristics of gold nanoparticles in the presence of cysteine. 2009 , 338, 93-101	141
1577	Extracellular biosynthesis of functionalized silver nanoparticles by strains of <i>Cladosporium cladosporioides</i> fungus. 2009 , 68, 88-92	436
1576	Synthesis of micron-scale gold nanochains by a modified citrate reduction method. 2009 , 255, 5827-5830	12
1575	Recent advances in nanostructured biocatalysts. 2009 , 44, 53-59	137
1574	Electrochemical DNA biosensor for the detection of DNA hybridization with the amplification of Au nanoparticles and CdS nanoparticles. 2009 , 75, 37-43	98

1573	Imaging the disruption of phospholipid monolayer by protein-coated nanoparticles using ordering transitions of liquid crystals. 2009 , 30, 843-9	57
1572	Size-controlled synthesis of monodisperse gold nanooctahedrons and their surface-enhanced Raman scattering properties. 2009 , 468, 245-248	41
1571	A theoretical study of size and temperature dependent morphology transformations in gold nanoparticles. 2009 , 474, 115-118	5
1570	Ultrasensitive enhanced chemiluminescence enzyme immunoassay for the determination of alpha-fetoprotein amplified by double-codified gold nanoparticles labels. 2009 , 24, 2707-11	92
1569	A microfluidic detection system based upon a surface immobilized biobarcode assay. 2009 , 24, 2397-403	35
1568	An electrochemical immunoassay for protein based on bio bar code method. 2009 , 24, 2434-40	38
1567	Nano-ELISA for highly sensitive protein detection. 2009 , 24, 2836-41	121
1566	Electrochemical detection of DNA hybridization based on bio-bar code method. 2009 , 24, 3140-3	41
1565	Construction of DNA sandwich electrochemical biosensor with nanoPbS and nanoAu tags on magnetic microbeads. 2009 , 24, 3223-8	29
1564	Multi-functional crosslinked Au nanoaggregates for the amplified optical DNA detection. 2009 , 24, 3311-5	51
1563	Microarray-based Raman spectroscopic assay for kinase inhibition by gold nanoparticle probes. 2009 , 24, 3335-9	43
1562	Three-dimensionally ordered macroporous (3DOM) gold-nanoparticle-doped titanium dioxide (GTD) photonic crystals modified electrodes for hydrogen peroxide biosensor. 2009 , 25, 773-7	42
1561	Optical investigation of the electron transfer protein azurin-gold nanoparticle system. 2009 , 139, 1-7	46
1560	Determination of nanomolar uric and ascorbic acids using enlarged gold nanoparticles modified electrode. 2009 , 386, 65-72	105
1559	Functional gold nanoparticles for studying the interaction of lectin with glycosyl complex on living cellular surfaces. 2009 , 392, 77-82	19
1558	Surface-enhanced Raman spectroscopy combined with atomic force microscopy for ultrasensitive detection of thrombin. 2009 , 393, 149-54	23
1557	A rapid and simple method for ultrasensitive electrochemical immunoassay of protein by an electric field-driven strategy. 2009 , 644, 36-41	14
1556	Gold nanoparticles in nanomedicine: preparations, imaging, diagnostics, therapies and toxicity. 2009 , 38, 1759-82	2188

1555	Glucose biosensor based on nanocomposite films of CdTe quantum dots and glucose oxidase. 2009 , 25, 6580-6	156
1554	Tuning the magnetic resonance imaging properties of positive contrast agent nanoparticles by surface modification with RAFT polymers. 2009 , 25, 9487-99	106
1553	Preparation of glycopolymer-substituted gold nanoparticles and their molecular recognition. 2009 , 47, 1412-1421	67
1552	Heterostructured ZnO/Au nanoparticles-based resonant Raman scattering for protein detection. 2009 , 113, 1468-72	52
1551	Enhanced Optical Properties of Core/Shell/Shell CdTe/CdS/ZnO Quantum Dots Prepared in Aqueous Solution. 2009 , 113, 19458-19467	77
1550	Size Evaluation of Gold Nanoparticles by UV-Vis Spectroscopy. 2009 , 113, 4277-4285	411
1549	Nucleic acid conjugated nanomaterials for enhanced molecular recognition. 2009 , 3, 2451-60	276
1548	Gold nanoparticles: past, present, and future. 2009 , 25, 13840-51	864
1547	Gold nanoparticle arrangement on viral particles through carbohydrate recognition: a non-cross-linking approach to optical virus detection. 2009 , 20, 1848-52	71
1546	On the use of plasmonic nanoparticle pairs as a plasmon ruler: the dependence of the near-field dipole plasmon coupling on nanoparticle size and shape. 2009 , 113, 1946-53	182
1545	pH-controllable supramolecular systems. 2009 , 4, 364-81	109
1544	Studies on CdSe/l-cysteine Quantum Dots Synthesized in Aqueous Solution for Biological Labeling. 2009 , 113, 7670-7676	84
1543	A localized surface plasmon resonance light-scattering assay of mercury (II) on the basis of Hg(2+)-DNA complex induced aggregation of gold nanoparticles. 2009 , 43, 5022-7	112
1542	Gold nanoparticle based label-free SERS probe for ultrasensitive and selective detection of trinitrotoluene. 2009 , 131, 13806-12	579
1541	Solubility adjustable nanoparticles stabilized by a novel PVP based family: synthesis, characterization and catalytic properties. 2009 , 4423-5	46
1540	ZnO and ZnS Nanostructures: Ultraviolet-Light Emitters, Lasers, and Sensors. 2009 , 34, 190-223	274
1539	Continuous colorimetric assay for acetylcholinesterase and inhibitor screening with gold nanoparticles. 2009 , 25, 2504-7	138
1538	Minute synthesis of extremely stable gold nanoparticles. 2009 , 20, 505606	83

1537	Preparation, Characterization of CeO ₂ -ZrO ₂ Composite Hollow Microspheres and Their Application as Electrocatalysis Materials for Hemoglobin in Biosensor. 2009 , 30, 178-184	10
1536	In vitro assessments of nanomaterial toxicity. 2009 , 61, 438-56	445
1535	Calculation of the thermodynamic potentials of changes in translational, rotational, and vibrational degrees of freedom in the dimerization of aromatic molecules. 2009 , 3, 707-712	2
1534	Fabrication, stabilization, and optical properties of gold nanorods with silver shells. 2009 , 4, 453-466	6
1533	Formation of silver nanoparticles on shells of polyelectrolyte capsules using silver-mirror reaction. 2009 , 71, 596-602	14
1532	Active Manipulation of Quantum Dots using AC Electrokinetics. 2009 , 113, 6561-6565	33
1531	Photothermal Correlation Spectroscopy of Gold Nanoparticles in Solution 2009 , 113, 11451-11457	40
1530	A One-Pot Green Method for One-Dimensional Assembly of Gold Nanoparticles with a Novel Chitosan- α -inhydrin Bioconjugate at Physiological Temperature. 2009 , 113, 4315-4320	24
1529	Fabrication of Hierarchical Nanostructure of Silver via a Surfactant-Free Mixed Solvents Route. 2009 , 9, 3941-3947	47
1528	Spacer Control the Dynamic of Triplex Formation between Oligonucleotide-Modified Gold Nanoparticles. 2009 , 113, 17326-17331	14
1527	Comparison of the nonspecific binding of DNA-conjugated gold nanoparticles between polymeric and monomeric self-assembled monolayers. 2009 , 25, 235-41	30
1526	Atomic force microscope nanolithography: dip-pen, nanoshaving, nanografting, tapping mode, electrochemical and thermal nanolithography. 2009 , 21, 483001	62
1525	Self-assembled micronanoplexes for improved biolistic delivery of nucleic acids. 2009 , 6, 1927-33	12
1524	Biocompatible CdSe-ZnS core-shell quantum dots coated with hydrophilic polythiols. 2009 , 25, 7090-6	88
1523	Direct Observation of Nanoparticle Self-Assembly Dynamics at the Water-Air Interface Using Differential Interference Contrast Microscopy. 2009 , 113, 1209-1216	12
1522	Pt-Guided Formation of Pt-Ag Alloy Nanoislands on Au Nanorods and Improved Methanol Electro-Oxidation. 2009 , 113, 10505-10510	80
1521	Fuming method for micropatterning structures on Langmuir-Blodgett films. 2009 , 25, 5098-102	9
1520	Imidazole Based Biocompatible Polymer Coating in Deriving . 2009 , 113, 21484-21492	24

1519	Using plasmonic heating of gold nanoparticles to generate local SER(R)S-active TiO ₂ spots. 2009 , 2359-61	31
1518	Stability and electrostatic assembly of Au nanorods for use in biological assays. 2009 , 25, 317-25	69
1517	Magnetic bead and nanoparticle based electrochemiluminescence amplification assay for direct and sensitive measuring of telomerase activity. 2009 , 81, 255-61	150
1516	Engineering the spatial selectivity of surfaces at the nanoscale using particle lithography combined with vapor deposition of organosilanes. 2009 , 3, 2023-35	60
1515	Dip-Pen Nanolithography-Generated Patterns Used as Gold Etch Resists: A Comparison Study of 16-Mercaptohexadecanoic Acid and 1-Octadecanethiol. 2009 , 113, 4184-4187	19
1514	Aptamer-linked assay for thrombin using gold nanoparticle amplification and inductively coupled plasma-mass spectrometry detection. 2009 , 81, 7484-9	117
1513	Polyhedral Au nanocrystals exclusively bound by {110} facets: the rhombic dodecahedron. 2009 , 131, 1672-3	118
1512	Engineering nanomaterial surfaces for biomedical applications. 2009 , 234, 1128-39	100
1511	Spatial control of chemistry on the inside and outside of inorganic nanocrystals. 2009 , 3, 770-4	14
1510	Selective synthesis of single-crystalline rhombic dodecahedral, octahedral, and cubic gold nanocrystals. 2009 , 131, 697-703	279
1509	Phospholipid-dextran with a single coupling point: a useful amphiphile for functionalization of nanomaterials. 2009 , 131, 289-96	76
1508	Receptor arrays for the selective and efficient capturing of viral particles. 2009 , 20, 466-75	7
1507	Synthesis at the interface of chemistry and biology. 2009 , 131, 12497-515	82
1506	Light-Controllable Surface Plasmon Resonance Absorption of Gold Nanoparticles Covered with Photochromic Diarylethene Polymers. 2009 , 113, 17359-17366	61
1505	Photopatterning, etching, and derivatization of self-assembled monolayers of phosphonic acids on the native oxide of titanium. 2009 , 25, 10746-53	37
1504	Conjugation of Au ₁₁ cluster with Cys-rich peptides containing the alpha-domain of metallothionein. 2009 , 3742-7	8
1503	Probing conformers and adsorption footprints at the single-molecule level in a highly organized amino acid assembly of (S)-proline on Cu(110). 2009 , 131, 10173-81	61
1502	An ultrasensitive electrochemical "turn-on" label-free biosensor for Hg ²⁺ with AuNP-functionalized reporter DNA as a signal amplifier. 2009 , 5633-5	111

1501	15-Crown-5 Functionalized Au Nanoparticles Synthesized via Single Molecule Exchange on Silica Nanoparticles: Its Application to Probe 15-Crown-5/K ⁺ /15-Crown-5 Sandwiches as Linking Mechanisms. 2009 , 113, 1686-1693	21
1500	Synthesis and thermally reversible assembly of DNA-gold nanoparticle cluster conjugates. 2009 , 9, 4564-9	83
1499	Stable silver nanoparticle-DNA conjugates for directed self-assembly of core-satellite silver-gold nanoclusters. 2009 , 6059-61	95
1498	In vitro diagnostic prospects of nanoparticles. 2009 , 403, 1-8	101
1497	Label-free genotyping of single-nucleotide polymorphisms for DNA and RNA targets using a cationic polythiophene derivate. 2009 , 79, 27-31	14
1496	Fluorescence enhancement by Au nanostructures: nanoshells and nanorods. 2009 , 3, 744-52	492
1495	Fluorescence turn-on detection of iodide, iodate and total iodine using fluorescein-5-isothiocyanate-modified gold nanoparticles. 2009 , 134, 2106-12	69
1494	Laser ablation synthesis in solution and size manipulation of noble metal nanoparticles. 2009 , 11, 3805-21	607
1493	Experimental and computational studies of ZnS nanostructures. 2009 , 35, 1015-1032	48
1492	Effect of orientation on plasmonic coupling between gold nanorods. 2009 , 3, 3670-8	156
1491	Indium tin oxide nanoparticles with compositionally tunable surface plasmon resonance frequencies in the near-IR region. 2009 , 131, 17736-7	436
1490	Cyclodextrin-covered gold nanoparticles for targeted delivery of an anti-cancer drug. 2009 , 19, 2310	155
1489	The role radius of curvature plays in thiolated oligonucleotide loading on gold nanoparticles. 2009 , 3, 418-24	380
1488	Iron oxide/gold core/shell nanoparticles for ultrasensitive detection of carbohydrate-protein interactions. 2009 , 81, 7750-6	79
1487	Functionalized Plasmonic Fluorescent Nanoparticles for Imaging and Detection. 2009 , 113, 18492-18498	72
1486	Design of one-to-one recognition triple Au nanoparticles DNA probe and its application in the electrochemical DNA biosensor. 2009 , 6958-60	18
1485	Synthesis of Branched Ag Nanoflowers Based on a Bioinspired Technique: Their Surface Enhanced Raman Scattering and Antibacterial Activity. 2009 , 113, 14753-14758	77
1484	Simple and rapid colorimetric sensing of enzymatic cleavage and oxidative damage of single-stranded DNA with unmodified gold nanoparticles as indicator. 2009 , 929-31	69

1483	Nanostructured T1 MRI contrast agents. 2009 , 19, 6267	223
1482	Applications of nanomaterials in electrochemical enzyme biosensors. 2009 , 9, 8547-61	107
1481	PAMAM dendrimer-enhanced DNA biosensors based on electrochemical impedance spectroscopy. 2009 , 134, 860-6	29
1480	Discrete functional gold nanoparticles: hydrogen bond-assisted synthesis, magnetic purification, supramolecular dimer and trimer formation. 2009 , 3, 2129-38	51
1479	Synthesis of multiple shaped gold nanoparticles using wet chemical method by different dendritic peptides at room temperature. 2009 , 19, 3457	50
1478	High-strength metal nanomagnets for diagnostics and medicine: carbon shells allow long-term stability and reliable linker chemistry. 2009 , 4, 787-98	51
1477	Ultrahigh sensitivity made simple: nanoplasmonic label-free biosensing with an extremely low limit-of-detection for bacterial and cancer diagnostics. 2009 , 20, 434015	126
1476	Colorimetric and Fluorescent Biosensors Based on Directed Assembly of Nanomaterials with Functional DNA. 2009 , 155-178	4
1475	Electrochemical, photoelectrochemical, and surface plasmon resonance detection of cocaine using supramolecular aptamer complexes and metallic or semiconductor nanoparticles. 2009 , 81, 9291-8	230
1474	Photochemical Synthesis of Water-Soluble Gold Nanorods: The Role of Silver in Assisting Anisotropic Growth. 2009 , 21, 4192-4202	80
1473	Functional DNA directed assembly of nanomaterials for biosensing. 2009 , 19,	120
1472	Molecularly mediated processing and assembly of nanoparticles: exploring the interparticle interactions and structures. 2009 , 42, 798-808	141
1471	Effects of ligand coordination number and surface curvature on the stability of gold nanoparticles in aqueous solutions. 2009 , 25, 10604-11	113
1470	Potential sensing platform of silver nanoparticles embedded in functionalized silicate shell for nitroaromatic compounds. 2009 , 81, 7552-60	81
1469	Reversible phase transfer of (CdSe/ZnS) quantum dots between organic and aqueous solutions. 2009 , 3, 661-7	116
1468	Application of Semiconductor Quantum Dots for Breast Cancer Cell Sensing. 2009 ,	2
1467	Colorimetric assay for lead ions based on the leaching of gold nanoparticles. 2009 , 81, 9433-9	186
1466	Gold nanoparticles for molecular diagnostics. 2009 , 9, 511-24	136

- 1465 A facile approach for cupric ion detection in aqueous media using polyethyleneimine/PMMA core-shell fluorescent nanoparticles. **2009**, 20, 365502 41
- 1464 Self-Organized Anodic TiO₂ Nanotube Arrays Functionalized by Iron Oxide Nanoparticles. **2009**, 21, 662-672 126
- 1463 Luminescent Silica Core / Silver Shell Encapsulated with Eu(III) Complex. **2009**, 113, 19404-19410 61
- 1462 Fluorescence Enhancement of Chromophores Close to Metal Nanoparticles. Optimal Setup Revealed by the Polarizable Continuum Model. **2009**, 113, 121-133 123
- 1461 Exploiting optothermal conversion for nanofabrication: site-selective generation of Au/TiO₂ inverse opals. **2009**, 19, 7990 24
- 1460 Functional nucleic acid sensors. *Chemical Reviews*, **2009**, 109, 1948-98 68.1 1799
- 1459 Combinatorial Methods for Chemical and Biological Sensors. **2009**, 13 13
- 1458 Photoluminescence Quenching of CdSe/ZnS Quantum Dots by Molecular Ferrocene and Ferrocenyl Thiol Ligands. **2009**, 113, 18676-18680 37
- 1457 Visual and colorimetric detection of Hg(2+) by cloud point extraction with functionalized gold nanoparticles as a probe. **2009**, 7030-2 68
- 1456 DNA-templated nanofabrication. **2009**, 38, 329-37 124
- 1455 Universal translators for nucleic acid diagnosis. **2009**, 131, 9368-77 55
- 1454 Experimental studies on the interactions between Au nanoparticles and amino acids: bio-based formation of branched linear chains. **2009**, 1, 1270-8 37
- 1453 Fabrication and Biofunctionalization of Carbon-Encapsulated Au Nanoparticles. **2009**, 21, 1176-1178 48
- 1452 Fast catalytic and electrocatalytic oxidation of sodium borohydride on palladium nanoparticles and its application to ultrasensitive DNA detection. **2009**, 6394-6 28
- 1451 An Effective Strategy for Room-Temperature Synthesis of Single-Crystalline Palladium Nanocubes and Nanodendrites in Aqueous Solution. **2009**, 9, 2335-2340 51
- 1450 Adenosine detection by using gold nanoparticles and designed aptamer sequences. **2009**, 134, 1355-60 143
- 1449 Facile and controllable loading of single-stranded DNA on gold nanoparticles. **2009**, 81, 8523-8 86
- 1448 Alpha,gamma-peptide nanotube templating of one-dimensional parallel fullerene arrangements. **2009**, 131, 11335-7 79

1447	Effects of shape and size of cobalt ferrite nanostructures on their MRI contrast and thermal activation. 2009 , 113, 17761-17767	181
1446	Homogeneous selecting of a quadruplex-binding ligand-based gold nanoparticle fluorescence resonance energy transfer assay. 2009 , 81, 5709-15	58
1445	Shape- and Size-Controlled Synthesis of Calcium Molybdate Doughnut-Shaped Microstructures. 2009 , 113, 16414-16423	65
1444	Biosensors and Biodetection. 2009 ,	1
1443	Spectral and 3-Dimensional Tracking of Single Gold Nanoparticles in Living Cells Studied by Rayleigh Light Scattering Microscopy. 2009 , 113, 11766-11772	47
1442	Biomolecular sensing via coupling DNA-based recognition with gold nanoparticles. 2009 , 42, 203001	39
1441	Synthesis of rod-shaped gold nanorattles with improved plasmon sensitivity and catalytic activity. 2009 , 131, 1871-5	280
1440	Fabrication of oriented antibody-conjugated magnetic nanoprobes and their immunoaffinity application. 2009 , 81, 8774-82	92
1439	Toxicity and environmental risks of nanomaterials: challenges and future needs. 2009 , 27, 1-35	450
1438	Adenine and Adenosine Monophosphate (AMP) Gold Binding Interactions Studied by Surface-Enhanced Raman and Infrared Spectroscopies. 2009 , 113, 14390-14397	96
1437	Curvature-induced base pair "slipping" effects in DNA-nanoparticle hybridization. 2009 , 9, 317-21	40
1436	Recent advances in functional supramolecular nanostructures assembled from bioactive building blocks. 2009 , 38, 925-34	188
1435	Regulating immune response using polyvalent nucleic acid-gold nanoparticle conjugates. 2009 , 6, 1934-40	118
1434	Enhancement of Electrocatalytic Activity of DNA-Conjugated Gold Nanoparticles and Its Application to DNA Detection. 2009 , 113, 6093-6099	34
1433	Fluorescent avidin-bound silver particle: a strategy for single target molecule detection on a cell membrane. 2009 , 81, 883-9	33
1432	Mass-produced nanogap sensor arrays for ultrasensitive detection of DNA. 2009 , 131, 12211-7	42
1431	Engineered nanoparticle surfaces for improved mass spectrometric analyses. 2009 , 134, 2183-8	50
1430	Multimodal drug delivery using gold nanoparticles. 2009 , 1, 61-7	212

1429	Bio-bar-code functionalized magnetic nanoparticle label for ultrasensitive flow injection chemiluminescence detection of DNA hybridization. 2009 , 5567-9	40
1428	Soft nanotechnology: "structure" vs. "function". 2009 , 143, 373-84	50
1427	Colloidal crystal beads coated with multicolor CdTe quantum dots: microcarriers for optical encoding and fluorescence enhancement. 2009 , 19, 6492	43
1426	Metal nanoparticle-DNA hybrids [From assembly towards functional conjugates. 2009 , 19, 1518	25
1425	Photophysical characterization of oligopyrene modules for DNA-based nanosystems. 2009 , 8, 1448-54	18
1424	Shape auxiliary approach for carboxylate-functionalized gold nanocrystals. 2009 , 1276-8	4
1423	Application of Synthesized Quantum Dots for Cell Imaging. 2009 ,	
1422	Luminescent self-assembly formation on a gold surface observed by reversible 'off-on' switching of Eu(III) emission. 2009 , 4959-61	40
1421	A gold nanoparticle based electrochemiluminescence probe for high sensitive telomerase activity analysis. 2009 ,	
1420	Magnetic peptide nucleic acids for DNA targeting. 2009 , 6017-9	18
1419	Synthesis of optically active helical poly(2-methoxystyrene). Enhancement of HeLa and osteoblast cell growth on optically active helical poly(2-methoxystyrene) surfaces. 2009 , 20, 2055-72	14
1418	Surface enhanced Raman spectroscopy (SERS) and density functional theory (DFT) study for understanding the regioselective adsorption of pyrrolidinone on the surface of silver and gold colloids. 2009 , 935, 32-38	50
1417	One-pot synthesis of atomically monodisperse, thiol-functionalized Au ₂₅ nanoclusters. 2009 , 19, 622-626	304
1416	Isothermal titration calorimetry study of the interaction of sweeteners with fullerenols as an artificial sweet taste receptor model. 2009 , 57, 2945-54	9
1415	A theoretical study on the interaction of aromatic amino acids with graphene and single walled carbon nanotube. 2009 , 130, 124911	230
1414	A Facile Hydrothermal Synthesis of Iron Oxide Nanoparticles with Tunable Magnetic Properties. 2009 , 113, 13593-13599	215
1413	A Label-Free Photoelectrochemical Immunosensor Based on Water-Soluble CdS Quantum Dots. 2009 , 113, 11142-11148	218
1412	High Throughput Single Molecule Spectral Imaging of Photoactivated Luminescent Silver Clusters on Silver Island Films. 2009 , 113, 5991-5997	17

1411	Plasmonic Field Effect on the Hexacyanoferrate (III)-Thiosulfate Electron Transfer Catalytic Reaction on Gold Nanoparticles: Electromagnetic or Thermal?. 2009 , 113, 19585-19590	72
1410	Electrostatically mediated liposome fusion and lipid exchange with a nanoparticle-supported bilayer for control of surface charge, drug containment, and delivery. 2009 , 131, 7567-9	225
1409	Porous nanoparticle supported lipid bilayers (protocells) as delivery vehicles. 2009 , 131, 1354-5	296
1408	Green Synthesis of Au Nanostructures at Room Temperature Using Biodegradable Plant Surfactants. 2009 , 9, 4979-4983	106
1407	Density-functional studies of plasmons in small metal clusters. 2009 , 130, 174701	33
1406	Lanthanide luminescent gold nanoparticles: pH-driven self-assembly formation between Eu(III)-cyclen conjugated AuNPs and sensitising β -diketonate antenna in water. 2009 , 7, 3074	44
1405	Plasmon resonance-based photoelectrochemical tailoring of spectrum, morphology and orientation of Ag nanoparticles on TiO ₂ single crystals. 2009 , 19, 5526	44
1404	Curvature effects in DNA: Au nanoparticle conjugates. 2009 , 3, 256-60	70
1403	Fluorescent gold nanoparticles-based fluorescence sensor for Cu ²⁺ ions. 2009 , 1736-8	236
1402	Core-shell triangular bifrustums. 2009 , 9, 3038-41	80
1401	Surfactant-Promoted Reductive Synthesis of Shape-Controlled Gold Nanostructures. 2009 , 9, 858-862	54
1400	Shadow overlap ion-beam lithography for nanoarchitectures. 2009 , 9, 3726-31	46
1399	Colorimetric recognition of DNA intercalators with unmodified gold nanoparticles. 2009 , 1658-60	31
1398	Nanoparticle-based bio-barcode assay redefines "undetectable" PSA and biochemical recurrence after radical prostatectomy. 2009 , 106, 18437-42	335
1397	DNA functionalized gold nanoparticles for bioanalysis. 2009 , 1, 14-24	54
1396	Nanoparticle optics of complex nanorod architectures. 2009 ,	
1395	DNA-Modified Nanoparticles: Gold and Silver. 2009 , 405-440	
1394	Fluorescent and Chromogenic Sensing and Labelling. 257-292	

1393	Gold Nanoparticles: Monolayer-Protected Scaffolds and Building Blocks. 2009 ,	
1392	Development of near infrared responsive material based on silica encapsulated gold nanoparticles. 2009 , 188, 012039	3
1391	Colloidal Dispersion of Metallic Nanoparticles. 2009 , 339-365	
1390	Inorganic Nanocrystals: Patterning and Assembling. 2009 ,	1
1389	Intrinsic fluorescent recognition ligand scaffold based on chaperonins and water-soluble semiconductor quantum dots. 2009 ,	
1388	Photoinduced conductivity of a porphyrin-gold composite nanowire. 2009 , 113, 4549-56	33
1387	Nanoskiving: a novel method for nanofabrication and its applications in nanophotonics. 2009 ,	1
1386	Hydroxylated Dendrimer-Stabilized Gold and Silver Nanoparticles: Spontaneous Formation, Characterization, and Surface Properties. 2010 , 6, 307-314	24
1385	Multifunctional and multicomponent heterostructured one-dimensional nanostructures: advances in growth, characterisation, and applications. 2010 , 25, 212-230	22
1384	Multifunctional nanoparticles: from the detection of biomolecules to the therapy. 2010 , 7, 781	23
1383	To Nano-Biochemistry: Picture of the Interactions of DNA with Gold. 2010 , 245-306	0
1382	Spherical and Anisotropic Metallic Nanomaterials-Based NSET Biosensors. 2010 ,	
1381	Molecular Inorganic Conductors and Superconductors. 2010 , 211-280	7
1380	Polymer-functionalized gold nanoparticles as versatile sensing materials. 2010 , 26, 1219-28	52
1379	Modified Gold Nanoparticles and Surfaces. 2010 , 113-154	0
1378	The influence of the nature of a nanoparticle and polymer matrix on the morphological characteristics of polymeric nanostructures. 2010 , 84, 2110-2115	9
1377	Formation and destruction of polyelectrolyte microcapsules modified by rhodamine 6G. 2010 , 4, 95-98	4
1376	Microcalorimetric, spectroscopic and microscopic investigation on the toxic effects of CdTe quantum dots on Halobacterium halobium R1. 2010 , 21, 475102	18

1375	Synthesis of Triangular Silver Nanoprisms by Stepwise Reduction of Sodium Borohydride and Trisodium Citrate. 2010 , 114, 2070-2074	102
1374	Chemically Directed Self-Assembly of Nanoparticle Structures on Surfaces. 2010 , 405-431	1
1373	Surface properties of water-soluble glycine-cysteamine-protected gold clusters. 2010 , 26, 1285-90	19
1372	Hydrophilic CdSe-ZnS core-shell quantum dots with reactive functional groups on their surface. 2010 , 26, 11503-11	80
1371	Surface modification, functionalization and bioconjugation of colloidal inorganic nanoparticles. 2010 , 368, 1333-83	1146
1370	Photochemical green synthesis of calcium-alginate-stabilized Ag and Au nanoparticles and their catalytic application to 4-nitrophenol reduction. 2010 , 26, 2885-93	813
1369	ESR spectroscopy as a tool to investigate the properties of self-assembled monolayers protecting gold nanoparticles. 2010 , 2, 668-76	43
1368	Nanoparticles for detection and diagnosis. 2010 , 62, 316-28	256
1367	Emerging nanotechnology-based strategies for the identification of microbial pathogenesis. 2010 , 62, 408-23	229
1366	Nanobioimaging and sensing of infectious diseases. 2010 , 62, 424-37	189
1365	Nanotechnology diagnostics for infectious diseases prevalent in developing countries. 2010 , 62, 438-48	126
1364	Unusual corrosion process of gold nanoplates and the mechanism study. 2010 , 2, 685-8	11
1363	Selective colorimetric sensor for Hg ²⁺ ions using a mixture of thiourea derivatives and gold nanoparticles stabilized with adenosine triphosphate. 2010 , 5, 2463-6	21
1362	Size and shape dependent second order nonlinear optical properties of nanomaterials and their application in biological and chemical sensing. <i>Chemical Reviews</i> , 2010 , 110, 5332-65	68.1 580
1361	Surface Modification of Positive Contrast Nanoparticle Agents with RAFT Polymers Towards the Targeted Imaging and Treatment of Cancer. 2010 , 65-101	2
1360	Poly(allylamine)-stabilized colloidal copper nanoparticles: synthesis, morphology, and their surface-enhanced Raman scattering properties. 2010 , 26, 7469-74	98
1359	Delivery and efficacy of a cancer drug as a function of the bond to the gold nanoparticle surface. 2010 , 26, 2248-55	135
1358	Laser desorption/ionization mass spectrometry analysis of monolayer-protected gold nanoparticles. 2010 , 396, 1025-35	53

1357	Compatibility of quantum dots with immunobuffers, and its effect on signal/background of quantum dot-based immunoassay. 2010 , 396, 1345-53	9
1356	Near-infrared quantum dots for deep tissue imaging. 2010 , 397, 1417-35	149
1355	Microfluidics in macro-biomolecules analysis: macro inside in a nano world. 2010 , 398, 239-64	31
1354	Fractionation and characterization of gold nanoparticles in aqueous solution: asymmetric-flow field flow fractionation with MALS, DLS, and UV-Vis detection. 2010 , 398, 2003-18	69
1353	The effect of cholesterol on protein-coated gold nanoparticle binding to liquid crystal-supported models of cell membranes. 2010 , 31, 3008-15	25
1352	Direct colorimetric diagnosis of pathogen infections by utilizing thiol-labeled PCR primers and unmodified gold nanoparticles. 2010 , 25, 1941-6	74
1351	Ultrasensitive detection of non-amplified genomic DNA by nanoparticle-enhanced surface plasmon resonance imaging. 2010 , 25, 2095-100	69
1350	Gold nanoparticle-based colorimetric assay of single-nucleotide polymorphism of triplex DNA. 2010 , 25, 2135-9	46
1349	Ultrasensitive aptamer-based protein detection via a dual amplified biocatalytic strategy. 2010 , 25, 2539-42	40
1348	Disposable amperometric magnetoimmunosensors for the specific detection of Streptococcus pneumoniae. 2010 , 26, 1225-30	35
1347	Development of biocompatible SERS nanotag with increased stability by chemisorption of reporter molecule for in vivo cancer detection. 2010 , 26, 398-403	102
1346	Large-scale synthesis of silver nanowires and platinum nanotubes. 2010 , 288, 1185-1191	23
1345	Highly sensitive electrochemical immunoassay for human IgG using double-encoded magnetic redox-active nanoparticles. 2010 , 171, 457-464	10
1344	Analytical potential of gold nanoparticles in functional aptamer-based biosensors. 2010 , 1, 187-208	28
1343	Functionalized nanopipettes: toward label-free, single cell biosensors. 2010 , 1, 177-185	70
1342	Polymer-virus core-shell structures prepared via co-assembly and template synthesis methods. 2010 , 53, 71-77	14
1341	Polymer-assisted nanoparticulate contrast-enhancing materials. 2010 , 53, 479-486	1
1340	Synthesis and optical properties of triangular gold nanoplates with controllable edge length. 2010 , 53, 2033-2038	12

1339	Fluorescence enhancement of acridine orange in a water solution by Au nanoparticles. 2010 , 53, 1799-1804	13
1338	Development of evanescent wave absorbance-based fibre-optic biosensor. 2010 , 75, 1099-1113	17
1337	Influence of silver nanoparticles on 2,3-bis(chloromethyl)anthracene-1,4,9,10-tetraone. 2010 , 20, 153-61	16
1336	Optical properties of micro-patterned silver nanoparticle substrates. 2010 , 20, 215-23	8
1335	Toxicity and cellular uptake of gold nanoparticles: what we have learned so far?. 2010 , 12, 2313-2333	1109
1334	Preparation of surfactant-stabilized gold nanoparticle-peptide nucleic acid conjugates. 2010 , 12, 2363-2369	34
1333	Gold nanoparticle platforms as drug and biomacromolecule delivery systems. 2010 , 148, 122-127	355
1332	Encapsulation of β -galactosidase from <i>Aspergillus oryzae</i> based on fish-in-net approach with molecular imprinting technique. 2010 , 63, 75-80	17
1331	Synthesis, characterization and photocatalytic properties of CaNb_2O_6 with ellipsoid-like plate morphology. 2010 , 12, 982-988	14
1330	Uniform In_2S_3 octahedron-built microspheres: Bioinspired synthesis and optical properties. 2010 , 12, 39-44	12
1329	Transfection of pancreatic islets using polyvalent DNA-functionalized gold nanoparticles. 2010 , 148, 335-45	34
1328	Modified gold nanoparticle vectors: a biocompatible intracellular delivery system for pancreatic islet cell transplantation. 2010 , 148, 858-65; discussion 865-6	12
1327	Nanotechnologies for pathogen detection: Future alternatives?. 2010 , 38, 9-13	29
1326	Ion and pH sensing with colloidal nanoparticles: influence of surface charge on sensing and colloidal properties. 2010 , 11, 730-5	90
1325	A Signal-Amplified Electrochemical Immunosensor Based on Prussian Blue and Pt Hollow Nanospheres as Matrix. 2010 , 22, 2577-2586	3
1324	Attomolar Electrochemical Detection of DNA Hybridization Based on Enhanced Latex/Gold Nanoparticles. 2010 , 12, B649-B653	7
1323	A Graphene Nanoprobe for Rapid, Sensitive, and Multicolor Fluorescent DNA Analysis. 2010 , 20, 453-459	1234
1322	Quantum-Dot-Functionalized Poly(styrene-co-acrylic acid) Microbeads: Step-Wise Self-Assembly, Characterization, and Applications for Sub-femtomolar Electrochemical Detection of DNA Hybridization. 2010 , 20, 1173-1179	78

1321	Designed Multifunctional Nanocomposites for Biomedical Applications. 2010 , 20, 1599-1609	64
1320	Use of Reversal Nanoimprinting of Nanoparticles to Prepare Flexible Waveguide Sensors Exhibiting Enhanced Scattering of the Surface Plasmon Resonance. 2010 , 20, 1742-1749	11
1319	Metal Nanoplates on Semiconductor Substrates. 2010 , 20, 3646-3657	39
1318	Enzymatic manipulation of DNA-modified gold nanoparticles for screening G-quadruplex ligands and evaluating selectivities. 2010 , 22, 389-93	32
1317	Synthesis and characterization of noble-metal nanostructures containing gold nanorods in the center. 2010 , 22, 744-8	149
1316	Nucleic acid diagnostic FRET particles based on layer-by-layer technology. 2010 , 22, 3548-52	10
1315	Nanoscale patterned materials with tunable dimensions via atomic layer deposition on block copolymers. 2010 , 22, 5129-33	227
1314	RNA-cleaving deoxyribozyme sensor for nucleic acid analysis: the limit of detection. 2010 , 11, 811-7, 729	43
1313	Nanoscale biomolecular structures on self-assembled monolayers generated from modular pegylated disulfides. 2010 , 16, 12234-43	11
1312	Controlled synthesis of water-dispersible faceted crystalline copper nanoparticles and their catalytic properties. 2010 , 16, 10735-43	83
1311	Chemistry on nucleic acid templates. 2010 , 7, 2581-615	12
1310	Peptidbasierte Verfahren zur Herstellung nanostrukturierter anorganischer Materialien. 2010 , 122, 1968-1986	38
1309	Goldnanopartikel in Biologie und Medizin. 2010 , 122, 3352-3366	132
1308	Halbsynthetische DNA-Protein-Konjugate für Biosensorik und Nanofabrikation. 2010 , 122, 1220-1238	72
1307	2D Random Organization of Racemic Amino Acid Monolayers Driven by Nanoscale Adsorption Footprints: Proline on Cu(110). 2010 , 122, 2394-2398	13
1306	An Aptamer Cross-Linked Hydrogel as a Colorimetric Platform for Visual Detection. 2010 , 122, 1070-1074	53
1305	Magnetisch abtrennbare Nanokatalysatoren: Brücken zwischen homogener und heterogener Katalyse. 2010 , 122, 3504-3537	132
1304	A Simple Spectroscopic Method for Differentiating Cellular Uptakes of Gold Nanospheres and Nanorods from Their Mixtures. 2010 , 122, 2020-2024	3

1303	Hybridmaterialien aus Nucleinsäuren und organischen Polymeren: Synthese, Berstrukturen und Anwendungen. 2010 , 122, 8754-8768	24
1302	Goldnanopartikel-Fluorophor-Komplexe: empfindliche, selektive Nasen für die Biosensorik. 2010 , 122, 3338-3350	22
1301	Colorimetric Detection of Glucose in Rat Brain Using Gold Nanoparticles. 2010 , 122, 4910-4914	68
1300	Glucose-Mediated Assembly of Phenylboronic Acid Modified CdTe/ZnTe/ZnS Quantum Dots for Intracellular Glucose Probing. 2010 , 122, 6704-6708	12
1299	Pharmaceutical Nano-Cocrystals: Sonochemical Synthesis by Solvent Selection and Use of a Surfactant. 2010 , 122, 7442-7446	12
1298	Peptide-based methods for the preparation of nanostructured inorganic materials. 2010 , 49, 1924-42	381
1297	Gold nanoparticles for biology and medicine. 2010 , 49, 3280-94	1878
1296	Semisynthetic DNA-protein conjugates for biosensing and nanofabrication. 2010 , 49, 1200-16	307
1295	2D random organization of racemic amino acid monolayers driven by nanoscale adsorption footprints: proline on Cu(110). 2010 , 49, 2344-8	42
1294	An aptamer cross-linked hydrogel as a colorimetric platform for visual detection. 2010 , 49, 1052-6	304
1293	Magnetically separable nanocatalysts: bridges between homogeneous and heterogeneous catalysis. 2010 , 49, 3428-59	1208
1292	A simple spectroscopic method for differentiating cellular uptakes of gold nanospheres and nanorods from their mixtures. 2010 , 49, 1976-80	49
1291	Nucleic acid/organic polymer hybrid materials: synthesis, superstructures, and applications. 2010 , 49, 8574-87	122
1290	Gold nanoparticle-fluorophore complexes: sensitive and discerning "noses" for biosystems sensing. 2010 , 49, 3268-79	307
1289	Colorimetric detection of glucose in rat brain using gold nanoparticles. 2010 , 49, 4800-4	230
1288	Glucose-mediated assembly of phenylboronic acid modified CdTe/ZnTe/ZnS quantum dots for intracellular glucose probing. 2010 , 49, 6554-8	108
1287	Pharmaceutical nano-cocrystals: sonochemical synthesis by solvent selection and use of a surfactant. 2010 , 49, 7284-8	69
1286	Multifunctional nanoscale platforms for targeting of the cancer cell immortality spectrum. 2010 , 31, 202-16	4

1285	Monitoring colloidal stability of polymer-coated magnetic nanoparticles using AC susceptibility measurements. 2010 , 342, 540-9	38
1284	A versatile method for the preparation of water-soluble amphiphilic oligomer-coated semiconductor quantum dots with high fluorescence and stability. 2010 , 344, 279-85	34
1283	Engineering the Properties of Metal Nanostructures via Galvanic Replacement Reactions. 2010 , 70, 44-62	166
1282	Nanoscale patterning through self-assembly of hydrophilic block copolymers with one chain end constrained to surface. 2010 , 51, 1771-1778	20
1281	Polymer stabilized NiAg and NiBe alloy nanoclusters: Structural and magnetic properties. 2010 , 322, 934-939	17
1280	Novel polymeric bionanocomposites with catalytic Pt nanoparticles label immobilized for high performance amperometric immunoassay. 2010 , 25, 1699-704	34
1279	Colorimetric biosensing of mercury(II) ion using unmodified gold nanoparticle probes and thrombin-binding aptamer. 2010 , 25, 1994-8	162
1278	Fabrication of a novel electrochemical immunosensor based on the gold nanoparticles/colloidal carbon nanosphere hybrid material. 2010 , 55, 7814-7817	26
1277	Direct visualization of chirality in two dimensions. 2010 , 21, 1125-1134	15
1276	Real-time colorimetric screening of endopeptidase inhibitors using adenosine triphosphate (ATP)-stabilized gold nanoparticles. 2010 , 51, 2228-2231	8
1275	Molecular folding induced nanogold aggregation. 2010 , 51, 3102-3105	5
1274	A gold nanoparticle-based colorimetric sensing ensemble for the colorimetric detection of cyanide ions in aqueous solution. 2010 , 51, 4712-4716	71
1273	Synthesis of new macromolecular, functionalized carboxylic-acid-PEG-DHLA surface ligands. 2010 , 51, 5364-5367	1
1272	Copper nanowall array grown on bulk FeCoNi alloy substrate at room temperature as lithium-ion battery current collector. 2010 , 518, 6876-6882	5
1271	Controlling the assembly of hydrophobized gold nanoparticles at the air/water interface by varying the interfacial tension. 2010 , 519, 1072-1077	16
1270	Enhancement of sensitivity using gold nanorods-antibody conjugator for detection of E. coli O157:H7. 2010 , 143, 784-788	51
1269	Structure and self-assembly of sequentially adsorbed coronene/octanethiol monolayers. 2010 , 604, 1584-1590	14
1268	Evaluation of non-specific binding suppression schemes for neutravidin and alkaline phosphatase at the surface of reticulated vitreous carbon electrodes. 2010 , 657, 154-62	5

1267	Nicking endonuclease and target recycles signal amplification assisted quantum dots for fluorescence detection of DNA. 2010 , 680, 54-8	17
1266	Hydrothermal synthesis of histidine-functionalized single-crystalline gold nanoparticles and their pH-dependent UV absorption characteristic. 2010 , 76, 311-6	34
1265	Current perspectives on detection of microbial contamination in bioethanol fermentors. 2010 , 101, 5033-42	20
1264	Quantum dots electrochemical aptasensor based on three-dimensionally ordered macroporous gold film for the detection of ATP. 2010 , 26, 834-40	48
1263	Fabricated aptamer-based electrochemical "signal-off" sensor of ochratoxin A. 2010 , 26, 710-6	183
1262	Nanoparticles-based strategies for DNA, protein and cell sensors. 2010 , 26, 1164-77	123
1261	Ni ²⁺ -modulated homocysteine-capped CdTe quantum dots as a turn-on photoluminescent sensor for detecting histidine in biological fluids. 2010 , 26, 485-90	86
1260	Assembly of cross-linked multi-walled carbon nanotube mats. 2010 , 48, 987-994	57
1259	Effect of Surface Coating on the Toxicity of Silver Nanomaterials on Human Skin Keratinocytes. 2010 , 487, 92-92	186
1258	Antimicrobial activity of spherical silver nanoparticles prepared using a biocompatible macromolecular capping agent: evidence for induction of a greatly prolonged bacterial lag phase. 2010 , 8, 34	21
1257	Immunosensing using nanoparticles. 2010 , 13, 24-34	116
1256	Effect of pH and generation of dendron on single-step synthesis of gold nanoparticles using PEGylated polyamidoamine dendron in aqueous medium. 2010 , 48, 1391-1398	13
1255	Tailored Composite Polymer-Metal Nanoparticles by Miniemulsion Polymerization and Thiol-ene Functionalization. 2010 , 48, 1594-1606	85
1254	Nanoparticles consisting of optically active helical polymers: Preparation via aqueous catalytic miniemulsion polymerization and the effects of particles size on their optical activity. 2010 , 48, 1661-1668	25
1253	Plasma-Polymerized Films for Biochip Design. 2010 , 7, 151-162	16
1252	Fabrication of gold nanoparticles inside unmodified horse spleen apoferritin. 2010 , 6, 1483-7	74
1251	The role of surface functionality on acute cytotoxicity, ROS generation and DNA damage by cationic gold nanoparticles. 2010 , 6, 2246-9	203
1250	Self-assembled hybrid structures of DNA block-copolymers and nanoparticles with enhanced DNA binding properties. 2010 , 6, 2256-60	31

1249	Gd-labeled microparticles in MRI: in vivo imaging of microparticles after intraperitoneal injection. 2010 , 6, 2678-82	25
1248	Novel DNA materials and their applications. 2010 , 2, 648-69	63
1247	Aptamer-based multicolor fluorescent gold nanoprobe for multiplex detection in homogeneous solution. 2010 , 6, 201-4	205
1246	The effects of size, shape, and surface functional group of gold nanostructures on their adsorption and internalization by cells. 2010 , 6, 517-22	263
1245	Colorimetric Cu(2+) detection using DNA-modified gold-nanoparticle aggregates as probes and click chemistry. 2010 , 6, 623-6	233
1244	Detection of blood-transmissible agents: can screening be miniaturized?. 2010 , 50, 2032-45	11
1243	Imaging and quantifying the morphology of an organic-inorganic nanoparticle at the sub-nanometre level. 2010 , 5, 538-44	57
1242	Synthesis and Applications of Gold Nanoparticle Probes. 2010 , 38, 1-7	33
1241	. 2010 ,	12
1240	Inorganic Bioconjugates of Gold Clusters and Nanoparticles. 2010 , 55, 71-77	1
1239	Multifunctional Nano and Microparticles for Drug Delivery Systems. 2010 , 441, 333-355	2
1238	Ultrafast transient absorption studies of single metal and semiconductor nanowires. 2010 ,	2
1237	Colloidal Au-enhanced surface plasmon resonance imaging: application in a DNA hybridization process. 2010 , 12, 035003	17
1236	Gold Nanoparticles Bearing an Lipoic Acid-based Ligand Shell: Synthesis, Model Complexes and Studies Concerning Phosphorescent Platinum(II)-Functionalisation. 2010 , 65, 1089-1096	7
1235	Hybrid micro-/nanogels for optical sensing and intracellular imaging. 2010 , 1,	53
1234	Encapsulation of hydrophobic nanocrystals by diblock copolymers. 2010 ,	
1233	Flexible Chemical Sensors. 2010 , 247-273	2
1232	Building Nonmagnetic Metal@Oxide and Bimetallic Nanostructures: Potential Applications in the Life Sciences. 2010 ,	

1231	Label-free colorimetric biosensing of copper(II) ions with unimolecular self-cleaving deoxyribozymes and unmodified gold nanoparticle probes. 2010 , 21, 205502	61
1230	The Polyvalent Gold Nanoparticle Conjugate-Materials Synthesis, Biodiagnostics, and Intracellular Gene Regulation. 2010 , 35, 532-539	27
1229	Tunable Surface Plasmon Resonance of Gold Nanoparticles Self-Assembled on Fused Silica Substrate. 2010 , 13, K96	10
1228	Toxicity of Spherical and Anisotropic Nanosilica. 2010 ,	
1227	Immobilization of biomolecules on the surface of inorganic nanoparticles for biomedical applications. 2010 , 11, 014101	40
1226	Biofunctionalization of Spherical and Anisotropic Bimetallic Nanomaterials. 2010 ,	
1225	Multiplexed biomarker detection using x-ray fluorescence of composition-encoded nanoparticles. 2010 , 97, 263704	6
1224	Silica-Based Nanoparticles: Design and Properties. 2010 , 229-251	9
1223	Synthesis and Broad Spectrum Antibacterial Activity of Magnetite Ferrofluid. 2010 , 6, 587-591	24
1222	HIV diagnostics: challenges and opportunities. 2010 , 4, 399-412	8
1221	A study of the compartmentalization of core-shell nanoparticles through fluorescence energy transfer of dopants. 2010 , 21, 055703	3
1220	Shape-coded silica nanotubes for multiplexed bioassay: rapid and reliable magnetic decoding protocols. 2010 , 5, 77-88	22
1219	A minimal model of nanoparticle crystallization in polar solvents via steric effects. 2010 , 133, 074704	7
1218	Bioanalytical applications of au nanoparticles. 2010 , 4, 41-52	18
1217	Immobilization of motile bacterial cells via dip-pen nanolithography. 2010 , 21, 235105	8
1216	Responsive plasmonic assemblies of amphiphilic nanocrystals at oil-water interfaces. 2010 , 4, 6098-104	107
1215	Direct synthesis of polymerizable surfactant-stabilized nanoparticles: the macromolecular monomers for fabricating nanoparticle-polymer composites. 2010 , 21, 285604	10
1214	Glyconanoparticles polyvalent tools to study carbohydrate-based interactions. 2010 , 64, 211-90	79

1213	Structural Implications on the Electrochemical and Spectroscopic Signature of CdSe-ZnS CoreShell Quantum Dots. 2010 , 114, 7007-7013	36
1212	Self-aggregation of oligonucleotide-functionalized gold nanoparticles and its applications for highly sensitive detection of DNA. 2010 , 46, 5548-50	44
1211	One-step, size-controlled synthesis of gold nanoparticles at room temperature using plant tannin. 2010 , 12, 395-399	178
1210	Target-responsive structural switching for nucleic acid-based sensors. 2010 , 43, 631-41	655
1209	Interfacial Assembly of Nanoparticles with Fluorous-Tagged Organic Molecules. 2010 , 114, 13546-13550	5
1208	Plasmonic nanoparticle dimers for optical sensing of DNA in complex media. 2010 , 132, 9600-1	169
1207	Motion-based DNA detection using catalytic nanomotors. 2010 , 1, 36	236
1206	Spectral control of plasmonic emission enhancement from quantum dots near single silver nanoprisms. 2010 , 10, 2598-603	208
1205	Surface-Ligand-Dependent Cellular Interaction, Subcellular Localization, and Cytotoxicity of Polymer-Coated Quantum Dots. 2010 , 22, 2239-2247	140
1204	Visual detection of melamine in infant formula at 0.1 ppm level based on silver nanoparticles. 2010 , 135, 583-8	113
1203	DNA-functionalized colloids: Physical properties and applications. 2010 , 6, 4647	127
1202	Fabrication of Biocompatible Temperature- and pH-Responsive Magnetic Nanoparticles and Their Reversible Agglomeration in Aqueous Milieu. 2010 , 49, 8518-8525	31
1201	Salt concentration-induced dehybridisation of DNA-gold nanoparticle conjugate assemblies for diagnostic applications. 2010 , 46, 6382-4	30
1200	The story of a monodisperse gold nanoparticle: Au ₂₅ L ₁₈ . 2010 , 43, 1289-96	444
1199	Thermally addressed immunosorbent assay for multiplexed protein detections using phase change nanoparticles. 2010 , 82, 1186-90	21
1198	Fast molecular beacon hybridization in organic solvents with improved target specificity. 2010 , 114, 15694-9	39
1197	Nanopatterned Surfaces for Bio-Detection. 2010 , 43, 1556-1571	11
1196	InorganicOrganic Hybrid Nanoparticles for Medical Applications. 2010 , 85-133	

1195	Tuning the optical properties of fluorephore-hexylcarbazole organic nanoribbons with dispersed inorganic nanocrystals (AgNCs). 2010 , 20, 7372	15
1194	On-chip immunoassay using surface-enhanced Raman scattering of hollow gold nanospheres. 2010 , 82, 5290-5	100
1193	Nanomaterial enabled biosensors for pathogen monitoring - a review. 2010 , 44, 3656-69	208
1192	Colorimetric Detection of Heavy Metal Ions Using Label-Free Gold Nanoparticles and Alkanethiols. 2010 , 114, 16329-16334	189
1191	Nanoparticle assemblies for biological and chemical sensing. 2010 , 20, 24-35	181
1190	Conjugation of fluorescent proteins with DNA oligonucleotides. 2010 , 21, 921-7	22
1189	Exceptionally high payload of doxorubicin in hollow gold nanospheres for near-infrared light-triggered drug release. 2010 , 4, 1033-41	508
1188	Bioinspired synthesis and characterization of gadolinium-labeled magnetite nanoparticles for dual contrast t1- and T2-weighted magnetic resonance imaging. 2010 , 21, 505-12	167
1187	Thin film assemblies of molecularly-linked metal nanoparticles and multifunctional properties. 2010 , 26, 618-32	67
1186	Self-assembled filamentous nanostructures for drug/gene delivery applications. 2010 , 7, 341-51	25
1185	27 Heme Protein-Based Electrochemical Biosensors. 2010 , 203-298	2
1184	Chemically directed immobilization of nanoparticles onto gold substrates for orthogonal assembly using dithiocarbamate bond formation. 2010 , 2, 795-9	24
1183	State-of-the-art of (bio)chemical sensor developments in analytical Spanish groups. 2010 , 10, 2511-76	25
1182	Photonic interaction between quantum dots and gold nanoparticles in discrete nanostructures through DNA directed self-assembly. 2010 , 46, 240-2	47
1181	Size-controlled synthesis of dendrimer-stabilized silver nanoparticles for X-ray computed tomography imaging applications. 2010 , 1, 1677	81
1180	One-pot nucleation, growth, morphogenesis, and passivation of 1.4 nm Au nanoparticles on self-assembled rosette nanotubes. 2010 , 132, 32-3	44
1179	Synthesis of biotinylated β -D-mannoside or N-acetyl β -D-glucosaminoside decorated gold nanoparticles: study of their biomolecular recognition with Con A and WGA Lectins. 2010 , 21, 521-30	57
1178	Functional and multifunctional nanoparticles for bioimaging and biosensing. 2010 , 26, 11631-41	265

1177	Nanomedicine. 2010 , 615-735		1
1176	Dendrimers designed for functions: from physical, photophysical, and supramolecular properties to applications in sensing, catalysis, molecular electronics, photonics, and nanomedicine. <i>Chemical Reviews</i> , 2010 , 110, 1857-959	68.1	1534
1175	Hybrid strategies in nanolithography. 2010 , 73, 036501		144
1174	Site-selective immobilization of colloids on Au substrates via a noncovalent supramolecular "handcuff". 2010 , 26, 5323-8		55
1173	Peptides and peptide hormones for molecular imaging and disease diagnosis. <i>Chemical Reviews</i> , 2010 , 110, 3087-111	68.1	259
1172	Novel method to detect DNA methylation using gold nanoparticles coupled with enzyme-linkage reactions. 2010 , 82, 229-33		164
1171	Synthesis and Thermodynamically Controlled Anisotropic Assembly of DNA/Silver Nanoprisms Conjugates for Diagnostic Applications. 2010 , 22, 6684-6691		49
1170	Photomediated synthesis of silver triangular bipyramids and prisms: the effect of pH and BSPP. 2010 , 132, 12502-10		157
1169	Nanoparticles in aqueous media: crystallization and solvation charge asymmetry. 2010 , 6, 331-341		24
1168	Temperature-Dependent Emission of Monolayer-Protected Au ₃₈ Clusters. 2010 , 114, 16025-16028		35
1167	DNA Core@Inorganic Shell. 2010 , 132, 16735-6		60
1166	Ultrasensitive detection of DNA in diluted serum using NaBH ₄ electrooxidation mediated by [Ru(NH ₃) ₆] ³⁺ at indium-tin oxide electrodes. 2010 , 26, 6804-8		20
1165	Gold-nanoparticle-stabilized pluronic micelles exhibiting glutathione triggered morphology evolution properties. 2010 , 26, 16841-7		10
1164	In Situ Synthesis of Gold@3,4-Dihydroxy-L-Phenylalanine Core/Shell Nanospheres Used for Cell Imaging. 2010 , 114, 13010-13016		29
1163	Probing a century old prediction one plasmonic particle at a time. 2010 , 10, 1398-404		150
1162	Screening kinase inhibitors with a microarray-based fluorescent and resonance light scattering assay. 2010 , 82, 3067-72		43
1161	Formation of AgPt alloy nanoislands via chemical etching with tunable optical and catalytic properties. 2010 , 26, 4443-8		67
1160	Silver-based nanodisk codes. 2010 , 4, 5446-52		47

1159	Gold nanoparticles amplified ultrasensitive quantification of human urinary protein by capillary electrophoresis with on-line inductively coupled plasma mass spectroscopic detection. 2010 , 9, 3545-50	46
1158	Colorimetric detection of DNA, small molecules, proteins, and ions using unmodified gold nanoparticles and conjugated polyelectrolytes. 2010 , 107, 10837-41	463
1157	Enzyme:nanoparticle bioconjugates with two sequential enzymes: stoichiometry and activity of malate dehydrogenase and citrate synthase on Au nanoparticles. 2010 , 26, 18992-9000	67
1156	Step-addition Method for Enhancing the Yield of Gold Nanoparticles in Block Copolymer Solution. 2010 , 49, 810-820	6
1155	Peptide-based probes for targeted molecular imaging. 2010 , 49, 1364-76	228
1154	Understanding the mechanism of amino acid-based Au nanoparticle chain formation. 2010 , 26, 9860-74	45
1153	Well-defined DNA nanoparticles templated by self-assembled M(12)L(24) molecular spheres and binding of complementary oligonucleotides. 2010 , 132, 15930-2	64
1152	Modulation of size and shape of Au nanoparticles using amino-X-shaped poly(ethylene oxide)-poly(propylene oxide) block copolymers. 2010 , 114, 66-76	26
1151	A small library of DNA-encapsulated supramolecular nanoparticles for targeted gene delivery. 2010 , 46, 1851-3	49
1150	Light-triggered reversible phase transfer of composite colloids. 2010 , 26, 9442-8	48
1149	Tunable and reversible aggregation of poly(ethylene oxide-st-propylene oxide) grafted gold nanoparticles. 2010 , 26, 12321-9	31
1148	Synthesis and photodynamics of 9-mesitylacridinium ion-modified gold nanoclusters. 2010 , 132, 11002-3	24
1147	Tailoring DNA structure to increase target hybridization kinetics on surfaces. 2010 , 132, 10638-41	71
1146	Direct patterning of silanized-biomolecules on semiconductor surfaces. 2010 , 26, 18300-2	3
1145	Facile Hydrothermal Synthesis of SrNb ₂ O ₆ Nanotubes with Rhombic Cross Sections. 2010 , 10, 2447-2450	9
1144	Gold nanoparticle-based colorimetric assay for selective detection of aluminium cation on living cellular surfaces. 2010 , 46, 988-90	78
1143	Assembly of DNA-functionalized nanoparticles in alcoholic solvents reveals opposite thermodynamic and kinetic trends for DNA hybridization. 2010 , 132, 6300-1	41
1142	Monitoring the uptake and redistribution of metal nanoparticles during cell culture using surface-enhanced Raman scattering spectroscopy. 2010 , 82, 7369-73	42

1141	Mesoporous silica nanotubes hybrid membranes for functional nanofiltration. 2010 , 21, 375603	33
1140	Thermo-Optical Properties of Colloids Enhanced by Gold Nanoparticles. 2010 , 49, 085002	15
1139	Chemical/Biochemical Preparation of New Polymeric Bionanocomposites with Enzyme Labels Immobilized at High Load and Activity for High-Performance Electrochemical Immunoassay. 2010 , 114, 1472-1480	36
1138	Site-specific patterning of highly ordered nanocrystal superlattices through biomolecular surface confinement. 2010 , 4, 5076-80	17
1137	Turning on resonant SERRS using the chromophore-plasmon coupling created by host-guest complexation at a plasmonic nanoarray. 2010 , 132, 6099-107	40
1136	Fluorescent metal nanoshell probe to detect single miRNA in lung cancer cell. 2010 , 82, 4464-71	78
1135	Evolution of various porphyrin nanostructures via an oil/aqueous medium: controlled self-assembly, further organization, and supramolecular chirality. 2010 , 132, 9644-52	151
1134	Expressed peptide assay for DNA detection. 2010 , 132, 4161-8	31
1133	Metal Nanoshell - Capsule for Light-Driven Release of Small Molecule. 2010 , 114, 7635-7659	12
1132	Carbon Spheres with Controllable Silver Nanoparticle Doping. 2010 , 114, 977-982	239
1131	Functional nanoprobe for ultrasensitive detection of biomolecules. 2010 , 39, 4234-43	492
1130	Self-catalyzed, self-limiting growth of glucose oxidase-mimicking gold nanoparticles. 2010 , 4, 7451-8	416
1129	Reaction-based fluorescent sensing of Au(I)/Au(III) species: mechanistic implications on vinylgold intermediates. 2010 , 12, 401-3	116
1128	Magnetically-responsive self assembled composites. 2010 , 39, 4057-66	90
1127	Cascade signal amplification strategy for subattomolar protein detection by rolling circle amplification and quantum dots tagging. 2010 , 82, 3337-42	146
1126	Scattering of light by molecules over a rough surface. 2010 , 27, 1002-11	1
1125	Direct observation to chemokine receptor 5 on T-lymphocyte cell surface using fluorescent metal nanoprobe. 2010 , 400, 111-6	10
1124	A fast and sensitive enzyme immunoassay for brain natriuretic peptide based on micro-magnetic probes strategy. 2010 , 81, 1016-21	20

1123	Optical investigations on ATP-induced aggregation of positive-charged gold nanoparticles. 2010 , 81, 1339-45	34
1122	A label-free colorimetric detection of lead ions by controlling the ligand shells of gold nanoparticles. 2010 , 82, 516-22	65
1121	Hotspot-induced transformation of surface-enhanced Raman scattering fingerprints. 2010 , 4, 3087-94	172
1120	Conjugation of peptides to the passivation shell of gold nanoparticles for targeting of cell-surface receptors. 2010 , 4, 6617-28	84
1119	Gold nanoparticles/L-cysteine/graphene composite based immobilization strategy for an electrochemical immunosensor. 2010 , 2, 1692	30
1118	On the application potential of gold nanoparticles in nanoelectronics and biomedicine. 2010 , 368, 1405-53	208
1117	AuI: an alternative and potentially better precursor than AuIII for the synthesis of Au nanostructures. 2010 , 20, 2290	46
1116	Bioresponsive peptide-inorganic hybrid nanomaterials. 2010 , 39, 3358-70	91
1115	Enhanced uptake of porous silica microparticles by bifunctional surface modification with a targeting antibody and a biocompatible polymer. 2010 , 2, 2489-95	34
1114	Cysteine-functionalized polyaspartic acid: a polymer for coating and bioconjugation of nanoparticles and quantum dots. 2010 , 26, 6503-7	35
1113	The complex role of multivalency in nanoparticles targeting the transferrin receptor for cancer therapies. 2010 , 132, 11306-13	261
1112	Nucleic acid-guided assembly of aromatic chromophores. 2010 , 39, 410-22	227
1111	Electrochemiluminescence biobarcode method based on cysteamine-gold nanoparticle conjugates. 2010 , 82, 3099-103	91
1110	Biohybrid Electrochemical Devices. 2010 , 333-376	3
1109	Polyvalent oligonucleotide iron oxide nanoparticle "click" conjugates. 2010 , 10, 1477-80	119
1108	Addressable terminally linked DNA-CNT nanowires. 2010 , 132, 14009-11	33
1107	Penetration of lipid membranes by gold nanoparticles: insights into cellular uptake, cytotoxicity, and their relationship. 2010 , 4, 5421-9	479
1106	Cellular response of polyvalent oligonucleotide-gold nanoparticle conjugates. 2010 , 4, 5641-6	117

1105	Creation of highly stable selenium nanoparticles capped with hyperbranched polysaccharide in water. 2010 , 26, 17617-23	108
1104	Quantitative detection of glyphosate by simultaneous analysis of UV spectroscopy and fluorescence using DNA-labeled gold nanoparticles. 2010 , 58, 12096-100	31
1103	Electrochemical responses and electrocatalysis at single au nanoparticles. 2010 , 132, 3047-54	189
1102	Conjugation of glucose oxidase onto Mn-doped ZnS quantum dots for phosphorescent sensing of glucose in biological fluids. 2010 , 82, 1427-33	313
1101	Advances in Coating Chemistry in Deriving Soluble Functional Nanoparticle. 2010 , 114, 11009-11017	85
1100	Melting Characteristics of Superlattices of Alkanethiol-Capped Gold Nanoparticles: The Excluded Story of Excess Thiol. 2010 , 22, 1680-1685	31
1099	Binary probes for nucleic acid analysis. <i>Chemical Reviews</i> , 2010 , 110, 4709-23	68.1 259
1098	MicroRNA Expression Detection Methods. 2010 ,	20
1097	Improvement of the stability of colloidal gold superparticles by polypyrrole modification. 2010 , 26, 8751-5	40
1096	Electrical sensor array for polymerase chain reaction-free messenger RNA expression profiling. 2010 , 82, 5958-64	17
1095	Conjugated Polymer Fluorescence Probe for Intracellular Imaging of Magnetic Nanoparticles. 2010 , 43, 10348-10354	41
1094	Cytotoxic and genotoxic assessment of glycolipid-reduced and -capped gold and silver nanoparticles. 2010 , 34, 294-301	74
1093	Biological surface effects of metallic nanomaterials for applications in assembly and catalysis. 2010 , 26, 15121-34	17
1092	Hydroxylamine-amplified gold nanoparticles for the homogeneous detection of sequence-specific DNA. 2010 , 135, 1400-5	9
1091	Electrochemical size discrimination of gold nanoparticles attached to glass/indium-tin-oxide electrodes by oxidation in bromide-containing electrolyte. 2010 , 82, 5844-50	87
1090	An editor's view of analytical chemistry (the Discipline). 2010 , 3, 1-18	7
1089	A silicon nanowire-based electrochemical glucose biosensor with high electrocatalytic activity and sensitivity. 2010 , 2, 1704-7	39
1088	Cluster Formation by Charged Nanoparticles on a Surface in Aqueous Solution. 2010 , 114, 3754-3762	20

1087	Dendrimer-based organic/inorganic hybrid nanoparticles in biomedical applications. 2010 , 2, 1596-610	154
1086	Probing the kinetics of ligand exchange on colloidal gold nanoparticles by surface-enhanced Raman scattering. 2010 , 349-51	31
1085	ROLE OF NEL AND BROWNIAN RELAXATION MECHANISMS FOR WATER-BASED Fe ₃ O ₄ NANOPARTICLE FERROFLUIDS IN HYPERTHERMIA. 2010 , 22, 393-399	12
1084	DNA-incorporating nanomaterials in biotechnological applications. 2010 , 5, 319-34	28
1083	Current molecular and emerging nanobiotechnology approaches for the detection of microbial pathogens. 2010 , 36, 318-39	49
1082	Uniform mesoporous dye-doped silica nanoparticles decorated with multiple magnetite nanocrystals for simultaneous enhanced magnetic resonance imaging, fluorescence imaging, and drug delivery. 2010 , 132, 552-7	645
1081	Clickable gold nanoparticles as the building block of nanobioprobes. 2010 , 26, 10171-6	32
1080	Probing the plasmonic near-field of gold nanocrescent antennas. 2010 , 4, 6639-50	113
1079	The synthesis and characterization of polymer-coated FeAu multifunctional nanoparticles. 2010 , 21, 335602	24
1078	Effect of oligonucleotide length on the assembly of DNA materials: molecular dynamics simulations of layer-by-layer DNA films. 2010 , 26, 17339-47	28
1077	Amperometric immunosensor based on gold nanoparticles/alumina sol-gel modified screen-printed electrodes for antibodies to Plasmodium falciparum histidine rich protein-2. 2010 , 135, 608-14	33
1076	Native serotonin membrane receptors recognize 5-hydroxytryptophan-functionalized substrates: enabling small-molecule recognition. 2010 , 1, 495-504	34
1075	Toxicity Evaluation of Quantum Dots to Microorganisms: A Toxicity Assessment of CdTe/ZnS Core/Shell Quantum Dots with Escherichia coli. 2010 ,	
1074	Bioluminescent nanosensors for protease detection based upon gold nanoparticle-luciferase conjugates. 2010 , 46, 76-8	89
1073	A novel synergistic enhanced chemiluminescence achieved by a multiplex nanoprobe for biological applications combined with dual-amplification of magnetic nanoparticles. 2010 , 1, 681	62
1072	DNA-functionalized monolithic hydrogels and gold nanoparticles for colorimetric DNA detection. 2010 , 2, 3594-600	106
1071	Angle- and energy-resolved plasmon coupling in gold nanorod dimers. 2010 , 4, 3053-62	144
1070	Assembly of gold nanowires by sedimentation from suspension: Experiments and simulation. 2010 , 114, 7346-7355	16

1069	Organic-inorganic mesoporous silica nanostrands for ultrafine filtration of spherical nanoparticles. 2010 , 46, 3917-9	58
1068	Rapid and selective lead (II) colorimetric sensor based on azacrown ether-functionalized gold nanoparticles. 2010 , 21, 315503	53
1067	Multifunctional Silver Poly(vinylidene fluoride) Nanocomposites: Nanoparticle Synthesis, Film Processing, and Structural Characterization. 2010 , 405, 85-91	8
1066	Boronic acid-modified DNA that changes fluorescent properties upon carbohydrate binding. 2010 , 46, 1073-5	31
1065	Morphology of mixed-monolayers protecting metal nanoparticles. 2010 , 20, 1403-1412	35
1064	Effects of the ionic size-asymmetry around a charged nanoparticle: unequal charge neutralization and electrostatic screening. 2010 , 6, 2056	60
1063	Enzyme-assisted binary probe for sensitive detection of RNA and DNA. 2010 , 46, 8761-3	48
1062	Aqueous-based route toward noble metal nanocrystals: morphology-controlled synthesis and their applications. 2010 , 2, 2328-35	59
1061	Highly soluble PEGylated pyrene-gold nanoparticles dyads for sensitive turn-on fluorescent detection of biothiols. 2010 , 135, 2323-7	17
1060	Polypeptide-guided assembly of conducting polymer nanocomposites. 2010 , 2, 2058-61	20
1059	Ultrasensitive nucleic acid detection using confocal laser scanning microscope with high crystalline silver dendrites. 2010 , 46, 8818-20	11
1058	Oxidative chemical vapor deposition (oCVD) of patterned and functional grafted conducting polymer nanostructures. 2010 , 20, 3968	35
1057	Photochemical induced growth and aggregation of metal nanoparticles in diode-array spectrophotometer via excited dimethyl-sulfoxide. 2010 , 12, 12862-7	7
1056	DNA-mediated site-specific deposition of gold nanoparticles on silicon wafers. 2010 , 2, 2579-82	2
1055	A facile method towards cyclic assembly of gold nanoparticles using DNA template alone. 2010 , 46, 6132-4	23
1054	A simple and sensitive method for visual detection of phosgene based on the aggregation of gold nanoparticles. 2010 , 46, 9203-5	49
1053	Studying copper(II) ion induced interactions of β -amyloid peptides within living cells by gold nanoparticle probes. 2010 , 2, 1467	13
1052	Synthesis of tetrahedral Au nanocrystals with exposed high-index surfaces. 2010 , 46, 5109-11	66

1051	Self-assembly of gold nanoparticles and polystyrene: a highly versatile approach to the preparation of colloidal particles with polystyrene cores and gold nanoparticle coronae. 2010 , 26, 8762-8	44
1050	Lectin-based nanoprobe functionalized with enzyme for highly sensitive electrochemical monitoring of dynamic carbohydrate expression on living cells. 2010 , 82, 1292-8	76
1049	Near-metallic behavior of warm holoferitin molecules on a gold(111) surface. 2010 , 26, 16005-12	17
1048	Nanoparticle-based immunoassays for sensitive and early detection of HIV-1 capsid (p24) antigen. 2010 , 201 Suppl 1, S59-64	96
1047	Nanosized diblock copolymer micelles as a scaffold for constructing a ratiometric fluorescent sensor for metal ion detection in aqueous media. 2010 , 21, 195501	46
1046	Density-functional and global optimization study of copper β in core-shell clusters. 2010 , 88, 1071-1078	11
1045	Magnetic bead based assay for C-reactive protein using quantum-dot fluorescence labeling and immunoaffinity separation. 2010 , 135, 381-9	43
1044	Evolution of gold nanoparticles through Catalan, Archimedean, and Platonic solids. 2010 , 12, 116-121	44
1043	Adsorbed Tween 80 is unique in its ability to improve the stability of gold nanoparticles in solutions of biomolecules. 2010 , 2, 2114-9	53
1042	Organic-inorganic hybrid photonic hydrogels as a colorful platform for visual detection of SCN ⁻ . 2010 , 46, 8636-8	33
1041	Highly sensitive protein detection using enzyme-labeled gold nanoparticle probes. 2010 , 135, 327-31	62
1040	Synthesis of gold nanoparticles in a biocompatible fluid from sputtering deposition onto castor oil. 2010 , 46, 7019-21	73
1039	Recognition and transmembrane delivery of bioconjugated Fe ₂ O ₃ @Au nanoparticles with living cells. 2010 , 2, 269-76	15
1038	Peptide template effects for the synthesis and catalytic application of Pd nanoparticle networks. 2010 , 20, 1522-1531	50
1037	Enhanced optoelectronic properties of RNA β poly(o-methoxyaniline) hybrid containing monodispersed Au nanoparticles. 2010 , 20, 7214	12
1036	Perylene probe induced gold nanoparticle aggregation. 2011 , 21, 4821	23
1035	(S)-Lysine adsorption induces the formation of gold nanofingers on Au{111}. 2011 , 47, 10365-7	8
1034	Controllable synthesis of multi-layered gold spirangles. 2011 , 21, 17606	9

1033	Topographically directed self-assembly of goldnanoparticles. 2011 , 21, 16863	14
1032	A FRET-based ratiometric sensor for mercury ions in water with multi-layered silica nanoparticles as the scaffold. 2011 , 47, 8913-5	82
1031	Growth and restoration of a T-tile-based 1D DNA nanotrack. 2011 , 47, 11053-5	14
1030	Interfacial templating of inorganic nanostructures using a growth directing and reducing peptide. 2011 , 7, 10285	8
1029	A sensitive colorimetric label-free assay for trypsin and inhibitor screening with gold nanoparticles. 2011 , 136, 3136-41	56
1028	Synthesis and cell-surface binding of lectin-gold nanoparticle conjugates. 2011 , 3, 1745	12
1027	Synthesis of size-tunable photoluminescent aqueous CdSe/ZnS microspheres via a phase transfer method with amphiphilic oligomer and their application for detection of HCG antigen. 2011 , 21, 7393	43
1026	Carboxyl functionalized mesoporous polymer: A novel peroxidase-like catalyst for H ₂ O ₂ detection. 2011 , 3, 1475	43
1025	Label-free Raman mapping of surface distribution of protein a and IgG biomolecules. 2011 , 27, 3198-205	32
1024	Ultrasensitive and selective DNA detection by hydroxylamine assisted gold nanoparticle amplification. 2011 , 47, 6120-2	9
1023	Fluorescence signal transduction mechanism for immunoassay based on zinc ion release from ZnS nanocrystals. 2011 , 136, 2975-80	8
1022	Au@organosilica multifunctional nanoparticles for the multimodal imaging. 2011 , 2, 1463	69
1021	Rigid, conjugated and shaped arylethyne as mediators for the assembly of gold nanoparticles. 2011 , 21, 1890-1901	25
1020	Detection of single-stranded nucleic acids by hybridization of probe oligonucleotides on polystyrene nanospheres and subsequent release and recovery of fluorescence. 2011 , 1, 1318	6
1019	Ultrasensitive DNA detection based on Au nanoparticles and isothermal circular double-assisted electrochemiluminescence signal amplification. 2011 , 47, 8358-60	86
1018	Multi-walled carbon nanotubes as an effective fluorescent sensing platform for nucleic acid detection. 2011 , 21, 824-828	82
1017	Screening kinase inhibitors with microarray-based Raman spectroscopic assay. 2011 , 3, 1003	6
1016	Chemical redox-regulated mesoporous silica-coated gold nanorods for colorimetric probing of Hg ²⁺ and S ²⁻ . 2011 , 136, 174-8	78

1015	DNA diagnostics with a bacterial reporter probe. 2011 , 47, 7470-2	7
1014	Antibody-functionalized SERS tags with improved sensitivity. 2011 , 47, 8784-6	30
1013	Iron-substituted SBA-15 microparticles: a peroxidase-like catalyst for H ₂ O ₂ detection. 2011 , 136, 4894-7	55
1012	Multilayer coating of gold nanorods for combined stability and biocompatibility. 2011 , 13, 10028-35	65
1011	Microscale golden Candock leaves self-aggregated on a polymer surface: Raman scattering enhancement and superhydrophobicity. 2011 , 27, 3249-53	13
1010	Label-free DNA hybridization detection and single base-mismatch discrimination using CE-ICP-MS assay. 2011 , 136, 5038-45	20
1009	Poly(2,3-diaminonaphthalene) microspheres as a novel quencher for fluorescence-enhanced nucleic acid detection. 2011 , 136, 2221-4	15
1008	Oriented crystallization of ultra-thin (2 nm) gold nanoplatelets inside a reactive hydrophobic polymeric matrix. 2011 , 7, 722-729	9
1007	Oligonucleotide-functionalized hydrogels as stimuli responsive materials and biosensors. 2011 , 7, 6757	153
1006	Salt-controlled assembly of stacked-graphene for capturing fluorescence and its application in chemical genotoxicity screening. 2011 , 21, 15266	5
1005	Liposil-supported lipid bilayers as a hybrid platform for drug delivery. 2011 , 7, 1001-1005	13
1004	Dye-doped silica nanoparticles as efficient labels for glycans. 2011 , 47, 4261-3	62
1003	Nucleic acid-functionalized nanomaterials for bioimaging applications. 2011 , 21, 16323	40
1002	A new strategy improves assembly efficiency of DNA mono-modified gold nanoparticles. 2011 , 47, 5774-6	42
1001	A post-labeling strategy based on dye-induced peeling of the aptamer off single-walled carbon nanotubes for electrochemical aptasensing. 2011 , 47, 2637-9	24
1000	Self-assembly of non-linear polymers at the air/water interface: the effect of molecular architecture. 2011 , 7, 10520	29
999	Nitrate enhanced electrochemiluminescence determination of tris(2,3-dibromopropyl) isocyanurate with a gold nanoparticles-modified gold electrode. 2011 , 136, 1952-6	14
998	Fluorescence-enhanced nucleic acid detection: using coordination polymer colloids as a sensing platform. 2011 , 47, 2625-7	56

997	Many manifestations of digestive ripening: monodispersity, superlattices and nanomachining. 2011 , 35, 755-763	52
996	Kinetic investigation of bioresponsive nanoparticle assembly as a function of ligand design. 2011 , 3, 383-6	7
995	Bead-Based Optical Immunoassay Using Quantum-Dot Labeling and Immunocomplex Dissociation for Detection of Escherichia coli O157:H7. 2011 , 44, 874-884	2
994	Ultrahigh density data storage based on organic materials with SPM techniques. 2011 , 21, 3522-3533	23
993	Peptide-tailored assembling of Au nanorods. 2011 , 47, 5482-4	13
992	Nanogold-based sensing of environmental toxins: excitement and challenges. 2011 , 29, 52-89	23
991	Nanotechnology risk assessment from a waste management perspective: are the current tools adequate?. 2011 , 30, 820-35	36
990	Mixed charged zwitterionic self-assembled monolayers as a facile way to stabilize large gold nanoparticles. 2011 , 27, 5242-51	71
989	Sensing Thermally Denatured DNA by Inhibiting the Growth of Au Nanoparticles: Spectral and Electrochemical Studies. 2011 , 115, 14461-14468	5
988	Gold nanoparticles as advanced building blocks for nanoscale self-assembled systems. 2011 , 21, 12181	36
987	Nucleic acid detection using carbon nanoparticles as a fluorescent sensing platform. 2011 , 47, 961-3	253
986	DNA Nanotechnology. 2011 ,	7
985	Molecular sensitivity of DNA-Ag-PATP hybrid on optical activity for ultratrace mercury analysis. 2011 , 47, 9360-2	34
984	Octopods versus concave nanocrystals: control of morphology by manipulating the kinetics of seeded growth via co-reduction. 2011 , 11, 2164-8	143
983	Detection of total count of Staphylococcus aureus using anti-toxin antibody labelled gold magnetite nanocomposites: a novel tool for capture, detection and bacterial separation. 2011 , 21, 17273	25
982	Observation of in Situ Ligand Reactions during the Assembly of Crystalline ZnS Clusters. 2011 , 11, 16-20	7
981	DNA-capped nanoparticles designed for doxorubicin drug delivery. 2011 , 47, 3418-20	64
980	Emerging bio-sensing methods for mycotoxin analysis. 2011 , 359-384	4

979	Self-assembly of superparamagnetic nanoparticles. 2011 , 26, 111-121	16
978	Functionalized poly(L-lactide) nanoparticles from electrospun nanofibers. 2011 , 22, 1331-41	2
977	Polarization-dependent scanning photoionization microscopy: ultrafast plasmon-mediated electron ejection dynamics in single Au nanorods. 2011 , 5, 3724-35	26
976	Mapping Complex Chiral Adlayers: A Truly Random 2-D Solid Solution of (RS)-3-Pyrroline-2-Carboxylic Acid on Cu(110) \square 2011 , 115, 1180-1185	11
975	Newkome-type dendron stabilized gold nanoparticles: Synthesis, reactivity, and stability. 2011 , 23, 2665-2676	58
974	Thin gold film-assisted fluorescence spectroscopy for biomolecule sensing. 2011 , 83, 7451-6	14
973	Assembly of colloidal nanoparticles directed by the microstructures of polycrystalline ice. 2011 , 5, 8426-33	77
972	Gold nanoparticles with cyclic phenylazomethines: one-pot synthesis and metal ion sensing. 2011 , 27, 7972-5	7
971	Polypeptide folding-mediated tuning of the optical and structural properties of gold nanoparticle assemblies. 2011 , 11, 5564-73	52
970	Systematic Tuning the Hydrodynamic Diameter of Uniformed Fluorescent Silica Nanoparticles. 2011 , 115, 16322-16332	15
969	Large-scale synthesis of bioinert tantalum oxide nanoparticles for X-ray computed tomography imaging and bimodal image-guided sentinel lymph node mapping. 2011 , 133, 5508-15	270
968	Aptamer sandwich-based carbon nanotube sensors for single-carbon-atomic-resolution detection of non-polar small molecular species. 2011 , 11, 52-6	66
967	Direct Attachment of Oligonucleotides to Quantum Dot Interfaces. 2011 , 23, 4975-4981	33
966	Assembly-based titration for the determination of monodisperse plasmonic nanoparticle concentrations using DNA. 2011 , 83, 4989-95	8
965	Protein micro- and nanopatterning using aminosilanes with protein-resistant photolabile protecting groups. 2011 , 133, 2749-59	38
964	Sputtering onto Liquids: From Thin Films to Nanoparticles. 2011 , 115, 16362-16367	61
963	Iminodiacetic acid-functionalized gold nanoparticles for optical sensing of myoglobin via Cu ²⁺ coordination. 2011 , 27, 6504-10	45
962	Electropolymerized self-assembled layer on gold nanoparticles: detection of inducible nitric oxide synthase in neuronal cell culture. 2011 , 83, 6177-83	68

961	The assembly state between magnetic nanosensors and their targets orchestrates their magnetic relaxation response. 2011 , 133, 3668-76	42
960	Selective biomolecular nanoarrays for parallel single-molecule investigations. 2011 , 133, 7656-9	33
959	Evaluation of a modified carbon micromesh electrode as a new substrate for electrochemical immunosensing. 2011 , 3, 799	6
958	Nanoparticles of the novel coordination polymer $\text{KBi}(\text{H}_2\text{O})_2[\text{Fe}(\text{CN})_6]\cdot\text{H}_2\text{O}$ as a potential contrast agent for computed tomography. 2011 , 50, 7910-2	22
957	Formation and NMR spectroscopy of thiol protected thiolated dithiol-coated gold nanoparticles and their usage in molecular charge transport junctions. 2011 , 27, 9057-67	20
956	A modular phase transfer and ligand exchange protocol for quantum dots. 2011 , 27, 4371-9	51
955	Multidentate-protected colloidal gold nanocrystals: pH control of cooperative precipitation and surface layer shedding. 2011 , 133, 7268-71	31
954	Selective enhancement of nucleases by polyvalent DNA-functionalized gold nanoparticles. 2011 , 133, 2120-3	103
953	Self-Assembled Plasmonic Dimers of Amphiphilic Gold Nanocrystals. 2011 , 2, 2258-2262	66
952	Sequence-selective recognition of nucleic acids under extremely low salt conditions using nanoparticle probes. 2011 , 83, 4090-4	23
951	Star-PDMAEMA- β -CD-Stabilized Colloidal Gold Nanoparticles: Synthesis, Characterization and pH-Controlled Assembly. 2011 , 48, 291-298	13
950	Luminescent ruthenium(II) polypyridyl functionalized gold nanoparticles; their DNA binding abilities and application as cellular imaging agents. 2011 , 133, 15862-5	130
949	Cooperative hybridization of oligonucleotides. 2011 , 133, 1077-86	76
948	Gold nanostructures: a class of multifunctional materials for biomedical applications. 2011 , 40, 44-56	662
947	Hierarchical nanotextured microelectrodes overcome the molecular transport barrier to achieve rapid, direct bacterial detection. 2011 , 5, 3360-6	101
946	Direct detection of point mutations in nonamplified human genomic DNA. 2011 , 83, 8711-7	66
945	Effects of the Material Structure on the Catalytic Activity of Peptide-Templated Pd Nanomaterials. 2011 , 1, 89-98	103
944	Responsive nanostructures from aqueous assembly of rigid-flexible block molecules. 2011 , 44, 72-82	333

943	Nanobiosensors. 2011 , 95-128	3
942	Controlling assembly of paired gold clusters within apoferritin nanoreactor for in vivo kidney targeting and biomedical imaging. 2011 , 133, 8617-24	239
941	Nanobiosensing for Clinical Diagnosis. 2011 , 535-567	3
940	Sensing through signal amplification. 2011 , 40, 4488-505	129
939	DNA-enabled self-assembly of plasmonic nanoclusters. 2011 , 11, 4859-64	128
938	A discrete interaction model/quantum mechanical method to describe the interaction of metal nanoparticles and molecular absorption. 2011 , 135, 134103	65
937	Infrared plasmonics with indium-tin-oxide nanorod arrays. 2011 , 5, 9161-70	106
936	Chiral nematic assemblies of silver nanoparticles in mesoporous silica thin films. 2011 , 133, 3728-31	145
935	One-step assay for detecting influenza virus using dynamic light scattering and gold nanoparticles. 2011 , 136, 3083-90	115
934	Carbon nanospheres for fluorescent biomolecular detection. 2011 , 21, 4663	49
933	Applications of Polymer Bioconjugates. 2011 , 2645-2687	
932	Highly sensitive fluorescent analysis of dynamic glycan expression on living cells using glyconanoparticles and functionalized quantum dots. 2011 , 83, 7006-12	75
931	Multifunctional mesoporous silica nanocomposite nanoparticles for theranostic applications. 2011 , 44, 893-902	608
930	Multiphoton Scanning Photoionization Imaging Microscopy for Single-Particle Studies of Plasmonic Metal Nanostructures. 2011 , 115, 83-91	21
929	Optical and transport properties of spheroidal metal nanoparticles with account for the surface effect. 2011 , 84,	30
928	Luminescent lanthanide-functionalized gold nanoparticles: exploiting the interaction with bovine serum albumin for potential sensing applications. 2011 , 5, 7184-97	77
927	Mesoporous silica particles for selective detection of dopamine with β -cyclodextrin as the selective barricade. 2011 , 47, 9086-8	41
926	Electrostatics at the nanoscale. 2011 , 3, 1316-44	182

925	Biomimetic high density lipoprotein nanoparticles for nucleic acid delivery. 2011 , 11, 1208-14	104
924	Gold nanoparticle probes for the detection of mercury, lead and copper ions. 2011 , 136, 863-71	322
923	Plasmonic vesicles of amphiphilic gold nanocrystals: self-assembly and external-stimuli-triggered destruction. 2011 , 133, 10760-3	220
922	Chemistry of nucleic acids: impacts in multiple fields. 2011 , 47, 7018-24	53
921	Luminescent gold nanoparticles with pH-dependent membrane adsorption. 2011 , 133, 11014-7	166
920	Mesoporous silica-coated gold nanorods: towards sensitive colorimetric sensing of ascorbic acid via target-induced silver overcoating. 2011 , 3, 1756-9	97
919	Inorganic Nanocrystals: Patterning and Assembling. 2011 ,	
918	Facile Synthesis of Bile Salt Encapsulated Gold Nanoparticles and Its Use in Colorimetric Detection of DNA. 2011 , 115, 15266-15273	29
917	Control of DNA hybridization by photoswitchable molecular glue. 2011 , 40, 5718-29	49
916	The controlled synthesis of stable gold nanoparticles in quaternary ammonium ionic liquids by simple heating. 2011 , 22, 025602	21
915	Quantum dot layer-by-layer assemblies as signal amplification labels for ultrasensitive electronic detection of uropathogens. 2011 , 83, 4302-6	53
914	Preparation and characterization of single-enzyme nanogels. 2011 , 743, 119-30	3
913	Quantum-dot-embedded silica nanotubes as nanoprobe for simple and sensitive DNA detection. 2011 , 22, 155102	6
912	Self-Assembly of Nanoparticle Building Blocks. 2011 , 203-224	
911	Preparation of Nickel Nanoparticles in Spherical Polyelectrolyte Brush Nanoreactor and Their Catalytic Activity. 2011 , 50, 13848-13853	66
910	Full assessment of fate and physiological behavior of quantum dots utilizing <i>Caenorhabditis elegans</i> as a model organism. 2011 , 11, 3174-83	188
909	Manipulating the power of an additional phase: a flower-like Au-Fe ₃ O ₄ optical nanosensor for imaging protease expressions in vivo. 2011 , 5, 3043-51	92
908	Advances in plant disease and pest management. 2011 , 149, 91-114	59

907	Synthetic protein targeting by the intrinsic biorecognition functionality of poly(ethylene glycol) using PEG antibodies as biohybrid molecular adaptors. 2011 , 5, 5180-7	9
906	A supported palladium nanocatalyst for copper free acyl Sonogashira reactions: One-pot multicomponent synthesis of N-containing heterocycles. 2011 , 13, 3238	58
905	Emerging functional nanomaterials for therapeutics. 2011 , 21, 13107	137
904	One-Pot Synthesis of Coral-Shaped Gold Nanostructures for Surface-Enhanced Raman Scattering. 2011 , 14, 47-55	7
903	Molecular Printboards: From Supramolecular Chemistry to Nanofabrication. 2011 , 145-181	2
902	Preparation of hybrid mesoporous silica luminescent nanoparticles with lanthanide(III) complexes and their exhibition of white emission. 2011 , 40, 9313-9	21
901	Hybride aus DNA, Proteinen und Kolloiden. 2011 , 59, 112-116	
900	Fluorescent strip sensor for rapid determination of toxins. 2011 , 47, 1574-6	133
899	Controlled confinement of DNA at the nanoscale: nanofabrication and surface bio-functionalization. 2011 , 749, 169-85	8
898	Supramolecular gold nanoparticle-polymer composites formed in water with cucurbit[8]uril. 2011 , 47, 164-6	82
897	A colorimetric selective sensing probe for calcium ions with tunable dynamic ranges using cytidine triphosphate stabilized gold nanoparticles. 2011 , 47, 10299-301	34
896	Reversible tuning of plasmon coupling in gold nanoparticle chains using ultrathin responsive polymer film. 2011 , 3, 945-51	38
895	DNA discrete modified gold nanoparticles. 2011 , 3, 4015-21	27
894	Bio-Inspired Complex Block Copolymers/Polymer Conjugates and Their Assembly. 2011 , 1307-1339	2
893	Rapid synthesis of stable and functional conjugates of DNA/gold nanoparticles mediated by Tween 80. 2011 , 27, 13629-34	40
892	Nanoarray-based biomolecular detection using individual Au nanoparticles with minimized localized surface plasmon resonance variations. 2011 , 83, 2605-12	64
891	Binary optical encoding strategy for multiplex assay. 2011 , 27, 11722-8	12
890	Competitive protection of aptamer-functionalized gold nanoparticles by controlling the DNA assembly. 2011 , 83, 6464-7	24

889	Photonic Nanoparticles for Cellular and Tissular Labeling. 2011 , 59-104	1
888	Nanoscale Biocatalysis. 2011 ,	
887	Magnetic nanoparticles-based digestion and enrichment methods in proteomics analysis. 2011 , 8, 379-90	19
886	Multifunctional microgel magnetic/optical traps for SERS ultradetection. 2011 , 27, 4520-5	91
885	Plasmonic resonance energy transfer-based nanospectroscopy for sensitive and selective detection of 2,4,6-trinitrotoluene (TNT). 2011 , 47, 1237-9	65
884	Scanning Probe-Based Lithography for Production of Biological and Organic Nanostructures on Surfaces. 2011 , 1-34	1
883	Layered-metal-hydroxide nanosheet arrays with controlled nanostructures to assist direct electronic communication at biointerfaces. 2011 , 27, 12745-50	11
882	Polyaniline nanofibres for fluorescent nucleic acid detection. 2011 , 3, 967-9	73
881	Biosensors and nanomaterials and their application for mycotoxin determination. 2011 , 4, 361-374	78
880	One-pot synthesis of visible-light-driven plasmonic photocatalyst Ag/AgCl in ionic liquid. 2011 , 3, 22-9	200
879	Direct detection of chicken genomic DNA for gender determination by thymine-DNA glycosylase. 2011 , 52, 58-65	6
878	Tetracyanoquinodimethane nanoparticles as an effective sensing platform for fluorescent nucleic acid detection. 2011 , 3, 1051	14
877	Self-assembly of polystyrene with pendant hydrophilic gold nanoparticles: the influence of the hydrophilicity of the hybrid polymers. 2011 , 21, 16928	14
876	Gold nanoparticles for high-throughput genotyping of long-range haplotypes. 2011 , 6, 639-44	97
875	Self-assembled mesoporous hierarchical-like In ₂ S ₃ hollow microspheres composed of nanofibers and nanosheets and their photocatalytic activity. 2011 , 27, 5534-41	142
874	Fluorescent ferritin nanoparticles and application to the aptamer sensor. 2011 , 83, 5834-43	55
873	pH-tunable oxidase-like activity of cerium oxide nanoparticles achieving sensitive fluorogenic detection of cancer biomarkers at neutral pH. 2011 , 83, 2547-53	206
872	A new strategy for a DNA assay based on a target-triggered isothermal exponential degradation reaction. 2011 , 47, 5262-4	34

871	Colorimetric and dynamic light scattering detection of DNA sequences by using positively charged gold nanospheres: a comparative study with gold nanorods. 2011 , 22, 285501	26
870	Biomedical Nanotechnology. 2011 ,	6
869	Studying the interaction of carbohydrate-protein on the dendrimer-modified solid support by microarray-based plasmon resonance light scattering assay. 2011 , 136, 4301-7	15
868	A novel application of porphyrin nanoparticles as an effective fluorescent assay platform for nucleic acid detection. 2011 , 1, 36	22
867	NanoBiosensing. 2011 ,	26
866	Functionalized Biocompatible Nanoparticles for Site-Specific Imaging and Therapeutics. 2011 , 233-275	5
865	Size-dependent direct electrochemical detection of gold nanoparticles: application in magnetoimmunoassays. 2011 , 3, 3350-6	48
864	An SCC-DFTB/MD Study of the Adsorption of Zwitterionic Glycine on a Geminal Hydroxylated Silica Surface in an Explicit Water Environment. 2011 , 115, 9615-9621	36
863	Motion-driven sensing and biosensing using electrochemically propelled nanomotors. 2011 , 136, 4621-30	134
862	A nanoscale DNA-Au dendrimer as a signal amplifier for the universal design of functional DNA-based SERS biosensors. 2011 , 47, 3840-2	52
861	Cytosensing and Cell Surface Carbohydrate Assay by Assembly of Nanoparticles. 2011 , 485-534	
860	Protein Microarray for Disease Analysis. 2011 ,	2
859	Metal Nanoparticles in Microbiology. 2011 ,	61
858	Universal scaling and Fano resonance in the plasmon coupling between gold nanorods. 2011 , 5, 5976-86	106
857	Fluorescent Metal Nanoshells: Lifetime-Tunable Molecular Probes in Fluorescent Cell Imaging. 2011 , 115, 7255-7260	28
856	Versatile fabrication of water-dispersible nanoparticle- μ amphiphilic copolymer composite microspheres with specific functionalities. 2011 , 21, 6837	16
855	Dissociation and degradation of thiol-modified DNA on gold nanoparticles in aqueous and organic solvents. 2011 , 27, 6132-7	81
854	A new application of mesoporous carbon microparticles to nucleic acid detection. 2011 , 21, 339-341	48

853	Gold-carbon nanotube nanocomposites: synthesis and applications. 2011 , 2, 112	31
852	Hybrid nanoparticle-liposome detection of phospholipase activity. 2011 , 11, 1401-5	92
851	Amine-assisted synthesis of concave polyhedral platinum nanocrystals having {411} high-index facets. 2011 , 133, 4718-21	453
850	Protein detection using arrayed microsensor chips: tuning sensor footprint to achieve ultrasensitive readout of CA-125 in serum and whole blood. 2011 , 83, 1167-72	100
849	Gold nanoparticles catalyzed chemiluminescence immunoassay for detection of herbicide 2,4-dichlorophenoxyacetic acid. 2011 , 136, 2125-30	46
848	Strategy for increasing drug solubility and efficacy through covalent attachment to polyvalent DNA-nanoparticle conjugates. 2011 , 5, 6962-70	100
847	Synergistic pH effect for reversible shuttling aptamer-based biosensors between graphene oxide and target molecules. 2011 , 21, 8991	53
846	A generalized ligand-exchange strategy enabling sequential surface functionalization of colloidal nanocrystals. 2011 , 133, 998-1006	631
845	Interactions between CdSe/CdS quantum dots and DNA through spectroscopic and electrochemical methods. 2011 , 257, 9747-9751	12
844	Aptamer enzymatic cleavage protection assay for the gold nanoparticle-based colorimetric sensing of small molecules. 2011 , 706, 349-53	26
843	Size controlled synthesis of Pd nanoparticles inspired from the Wacker reaction and their catalytic performances. 2011 , 15, 56-59	10
842	Direct observation of chemokine receptors 5 on T-lymphocyte cell surfaces using fluorescent metal nanoprobes 2: Approximation of CCR5 populations. 2011 , 407, 63-7	6
841	Fluorescent metal nanoshell and CK19 detection on single cell image. 2011 , 413, 53-7	
840	Nano-enabled biomarker discovery and detection. 2011 , 5, 387-96	14
839	Advances in localized surface plasmon resonance spectroscopy biosensing. 2011 , 6, 1447-62	114
838	FRET-based ratiometric detection system for mercury ions in water with polymeric particles as scaffolds. 2011 , 115, 874-82	98
837	A graphene oxide-based nano-beacon for DNA phosphorylation analysis. 2011 , 47, 1201-3	94
836	Investigating the distance limit of a metal nanoparticle based spectroscopic ruler. 2011 , 2, 1727-33	29

835	Applications of advanced hybrid organic-inorganic nanomaterials: from laboratory to market. 2011 , 40, 696-753	1060
834	Hybrid nanoplasmonic-photonic resonators for efficient coupling of light to single plasmonic nanoresonators. 2011 , 19, 22292-304	38
833	Controllable synthesis of bifunctional NaYF ₄ :Yb ³⁺ /Ho ³⁺ @SiO ₂ /Au nanoparticles with upconversion luminescence and high X-ray attenuation. 2011 , 509, 9144-9149	16
832	Ag@poly(m-phenylenediamine) core-shell nanoparticles for highly selective, multiplex nucleic acid detection. 2011 , 27, 2170-5	92
831	Highly selective and sensitive visualizable detection of Hg ²⁺ based on anti-aggregation of gold nanoparticles. 2011 , 84, 508-12	74
830	Functional magnetic nanoparticle-based trapping and sensing approaches for label-free fluorescence detection of DNA. 2011 , 86, 200-7	14
829	Highly sensitive amperometric detection of bilirubin using enzyme and gold nanoparticles on sol-gel film modified electrode. 2011 , 86, 400-7	35
828	Advances in transfusion medicine in the first decade of the 21st century: Advances in miniaturized technologies. 2011 , 45, 45-51	
827	Mesoporous silica-coated hollow manganese oxide nanoparticles as positive T1 contrast agents for labeling and MRI tracking of adipose-derived mesenchymal stem cells. 2011 , 133, 2955-61	446
826	Programmable assembly of DNA-functionalized liposomes by DNA. 2011 , 5, 1304-12	73
825	Controlled synthesis of semiconductor nanostructures in the liquid phase. 2011 , 40, 5492-513	179
824	Designed hybridization properties of DNA-gold nanoparticle conjugates for the ultrasensitive detection of a single-base mutation in the breast cancer gene BRCA1. 2011 , 83, 7364-70	71
823	Homogeneous assays using aptamers. 2011 , 136, 257-74	73
822	Ultrasensitive fluorescence-based methods for nucleic acid detection: towards amplification-free genetic analysis. 2011 , 47, 3717-35	52
821	Fluorescence light-up recognition of DNA nucleotide based on selective abasic site binding of an excited-state intramolecular proton transfer probe. 2011 , 136, 4480-5	28
820	Numerical investigation of the plasmonic properties of bare and cysteine-functionalized silver nanoparticles. 2011 ,	2
819	Silver Nanoparticles as a Fluorescent Sensing Platform for Nucleic Acid Detection. 2011 , 39, 998-1002	13
818	DNA-templated fabrication of two-dimensional metallic nanostructures by thermal evaporation coating. 2011 , 133, 1742-4	36

817	Biosensing Based on Luminescent Semiconductor Quantum Dots and Rare Earth Up-Conversion Nanoparticles. 2011,	
816	Current and nano-diagnostic tools for dengue infection. 2011, 3, 806-21	9
815	Binding of the Same Analyte to Different Biosensor Surfaces. 2011, 129-168	
814	Metallic Nanoparticle Block Copolymer Vesicles with Enhanced Optical Properties. 2011, 1, 20-30	6
813	Silica Coating of Copper Nanoparticles by a Fast and Facile Microwave Method. 2011, 58, 591-597	
812	High contrast magnetic and nonmagnetic sample current microscopy for bulk and transparent samples using soft X-rays. 2011, 17, 834-42	21
811	Alkali Metal Ion Sensing Using Absorbance Changes Based on Aggregation of Silica Nanoparticles Modified Chemically with Crown Ethers. 2011, 40, 348-350	5
810	Structure-Property Relationships in Cu -Binding Tetramolecular G-Quadruplex DNA. 2018, 24, 2117-2125	17
809	Monitoring of Au(iii) species in plants using a selective fluorescent probe. 2018, 54, 888-891	28
808	Rapid Magnetic Nanobiosensor for the detection of Serratia marcescens. 2018, 305, 012005	16
807	Silica coating enhances the stability of inorganic perovskite nanocrystals for efficient and stable down-conversion in white light-emitting devices. 2018, 10, 20131-20139	107
806	Study on Interaction of G-rich Oligonucleotides Modified Gold Nanoparticles with Cells. 2018, 46, 1357-1362	1
805	Correlating anisotropy and disorder with the surface structure of platinum nanoparticles. 2018, 10, 20393-20404	94
804	2. Gold Nanoparticles in Bioanalytical Techniques. 2018, 55-86	
803	Self-limiting gold nanoparticle surface assemblies through modulation of pH and ionic strength. 2018, 20, 1	1
802	Engineered Noble-Metal Nanostructures for in Vitro Diagnostics. 2018, 30, 8391-8414	26
801	DNA Surface Technology: From Gene Sensors to Integrated Systems for Life and Materials Sciences. 2018, 130, 17204-17212	8
800	Surface Chemistry of Atomically Precise Coinage-Metal Nanoclusters: From Structural Control to Surface Reactivity and Catalysis. 2018, 51, 3084-3093	278

799	DNA Surface Technology: From Gene Sensors to Integrated Systems for Life and Materials Sciences. 2018 , 57, 16959-16967	25
798	Transparent Conducting Oxides for Optoelectronics and Biosensing Applications. 2018 ,	1
797	Biosynthesis of zinc oxide nanoparticles using stem bark, and evaluation of its antimicrobial, antioxidant, and cytotoxic activities on human breast cancer cell lines. 2019 , 14, 87-100	127
796	A Versatile Dynamic Light Scattering Strategy for the Sensitive Detection of Plant MicroRNAs Based on Click-Chemistry-Amplified Aggregation of Gold Nanoparticles. 2019 , 25, 1701-1705	3
795	Improved Models for Metallic Nanoparticle Cores from Atomic Pair Distribution Function (PDF) Analysis. 2018 , 122, 29498-29506	28
794	Ultrasensitive Electrical Detection of Follicle-Stimulating Hormone Using a Functionalized Silicon Nanowire Transistor Chemosensor. 2018 , 10, 36120-36127	7
793	Improved deep ultraviolet light photosensitivity of nanocomposite ZnOAg films deposited with substrate heating. 2018 , 5, 096203	1
792	Self-assembly of a drop pattern from a two-dimensional grid of nanometric metallic filaments. 2018 , 98,	2
791	Effective Antimicrobial Activity of Green ZnO Nano Particles of. 2018 , 9, 2030	87
790	Controlling the Catalytic and Optical Properties of Aggregated Nanoparticles or Semiconductor Quantum Dots Using DNA-Based Constitutional Dynamic Networks. 2018 , 12, 10725-10735	30
789	Theranostics Aspects of Various Nanoparticles in Veterinary Medicine. 2018 , 19,	30
788	Coupling of Surface Plasmon Modes and Refractive Index Sensitivity of Hollow Silver Nanoprism. 2018 , 8, 15993	10
787	Unraveling the long-pursued Au structure by x-ray crystallography. 2018 , 4, eaat7259	192
786	Versatile Types of DNA-Based Nanobiosensors for Specific Detection of Cancer Biomarker FEN1 in Living Cells and Cell-Free Systems. 2018 , 18, 7383-7388	24
785	On the Sputtering of Titanium and Silver onto Liquids, Discussing the Formation of Nanoparticles. 2018 , 122, 26605-26612	13
784	A boronate affinity MIP-based resonance light scattering sensor for sensitive detection of glycoproteins. 2018 , 10, 5112-5117	6
783	Single-Particle Spectroscopic Studies on Two-Photon Photoluminescence of Coupled Au Nanorod Dimers. 2018 , 122, 23102-23110	8
782	Magnetic Fe ₃ O ₄ nanorings for protein adsorption and detection. 2018 , 5, 125402	1

781	Towards operando computational modeling in heterogeneous catalysis. 2018 , 47, 8307-8348	116
780	New Insights on the Bonding Properties of BCC-like Au ₃₈ S ₂ (SR) ₂₀ Nanoclusters from X-ray Absorption Spectroscopy. 2018 , 122, 22776-22782	3
779	The Study of the Activation of Antibacterial Activity of Silver Nanoparticles by Laser Radiation. 2018 ,	
778	Silver-containing Polymer Nanocomposites. 2018 ,	
777	Rational design of an anchoring peptide for high-efficiency and quantitative modification of peptides and DNA strands on gold nanoparticles. 2018 , 10, 11491-11497	7
776	Nanobiosensors for Detection of Micropollutants. 2018 , 125-158	7
775	Bio-surface engineering with DNA scaffolds for theranostic applications. 2018 , 4, 1-16	7
774	Au(SR): the captain of the great nanocluster ship. 2018 , 10, 10758-10834	159
773	Recent review of the effect of nanomaterials on stem cells.. 2018 , 8, 17656-17676	21
772	Refractive index sensing using a linear graded plasmonic chain of metal nano-particles. 2018 , 56, 1247-1251	3
771	Facile Fabrication of Organic-Inorganic Hybrid Material Based on Well-Dispersed AuNPs on Organo-Functionalised Zn-Al-Layered Double Hydroxides for Hydroamination of 1-Hexene. 2018 , 3, 3092-3100	6
770	Capping of supramolecular cucurbit[7]uril facilitates formation of Au nanorods during pre-reduction by curcumin. 2018 , 553, 97-104	8
769	A synthetic biological quantum optical system. 2018 , 10, 13064-13073	7
768	Immuno-modified superparamagnetic nanoparticles via host-guest interactions for high-purity capture and mild release of exosomes. 2018 , 10, 14280-14289	53
767	Chirality transfer from organic ligands to silver nanostructures via chiral polarisation of the electric field. 2018 , 20, 20347-20351	12
766	Controllable Aggregation-Induced Exocytosis Inhibition (CAIEI) of Plasmonic Nanoparticles in Cancer Cells Regulated by MicroRNA. 2018 , 15, 4031-4037	16
765	Applications of Fungal Nanobiotechnology in Drug Development. 2018 , 273-286	1
764	Detecting Biothreat Agents: From Current Diagnostics to Developing Sensor Technologies. 2018 , 3, 1894-202483	

763	Structural Peculiarities and Properties of Silver-Containing Polymer Nanocomposites. 2018 , 49-62	1
762	Applications of gold nanoparticles in virus detection. 2018 , 8, 1985-2017	163
761	Palladium Nanoparticles: Toxicological Effects and Potential Implications for Occupational Risk Assessment. 2018 , 19,	49
760	Fungal Nanobionics: Principles and Applications. 2018 ,	33
759	Highly Sensitive Colorimetric Biosensor for Staphylococcal Enterotoxin B by a Label-Free Aptamer and Gold Nanoparticles. 2018 , 9, 179	44
758	Green Synthesis, Characterization and Application of Proanthocyanidins-Functionalized Gold Nanoparticles. 2018 , 8,	64
757	Multifunctional bacterial imaging and therapy systems. 2018 , 6, 5198-5214	31
756	One-Pot Synthesis of Highly Stable CsPbBr@SiO Core-Shell Nanoparticles. 2018 , 12, 8579-8587	262
755	Resonance Energy Transfer Mediated by MetalDielectric Composite Nanostructures. 2018 , 122, 18256-18265	10
754	Facile Synthesis of C3N4/Ag Composite Nanosheets as SERS Substrate for Monitoring the Catalytic Degradation of Methylene Blue. 2018 , 34, 290-295	6
753	Structural and catalytic properties of the AuAg(SCH) (x = 6, 7, 8) nanocluster. 2018 , 20, 13747-13756	11
752	Controlled fluorescence quenching by antibody-conjugated graphene oxide to measure tau protein. 2018 , 5, 171808	15
751	A Droplet-Reactor System Capable of Automation for the Continuous and Scalable Production of Noble-Metal Nanocrystals. 2018 , 18, 3879-3884	38
750	Imparting superhydrophobic and antibacterial properties onto the cotton fabrics: synergistic effect of zinc oxide nanoparticles and octadecanethiol. 2018 , 25, 4211-4222	22
749	A novel fluorescence Turn off-on nano-sensor for detecting Cu ²⁺ and Cysteine in living cells. 2018 , 362, 14-20	17
748	Plasmonics. 2018 , 425-458	1
747	Sub-Angstrom Gold Nanoparticle/Liposome Interfaces Controlled by Halides. 2018 , 34, 6628-6635	13
746	Rationally Developed Metallogelators Derived from Pyridyl Derivatives of NSAIDs Displaying Anti-Inflammatory and Anticancer Activities. 2018 , 10, 30649-30661	16

745	Continuously Tunable Nucleotide/Lanthanide Coordination Nanoparticles for DNA Adsorption and Sensing. 2018 , 3, 9043-9051	19
744	Lateral flow assays for Ochratoxin A using metal nanoparticles: comparison of "adsorption-desorption" approach to linkage inversion assembled nano-aptasensors (LIANA). 2018 , 143, 4566-4574	15
743	Effect of Surface Coverage of Gold Nanoparticles on the Refractive Index Sensitivity in Fiber-Optic Nanoplasmonic Sensing. 2018 , 18,	23
742	A superior bright NIR luminescent nanoparticle preparation and indicating calcium signaling detection in cells and small animals. 2018 , 8, 37	4
741	Fabrication of chemical sensor for organochlorine pesticide detection using colloidal gold nanoparticles. 2018 , 8, 1000-1007	6
740	Bioorthogonal DNA Adsorption on Polydopamine Nanoparticles Mediated by Metal Coordination for Highly Robust Sensing in Serum and Living Cells. 2018 , 12, 9070-9080	74
739	Functionalized Silver Nano-Sensor for Colorimetric Detection of Hg Ions: Facile Synthesis and Docking Studies. 2018 , 18,	23
738	Enhancing the mechanical performance of poly(ether ether ketone)/zinc oxide nanocomposites to provide promising biomaterials for trauma and orthopedic implants.. 2018 , 8, 27304-27317	22
737	Polyvalent Spherical Nucleic Acids for Universal Display of Functional DNA with Ultrahigh Stability. 2018 , 57, 9439-9442	39
736	Halide-Directed Synthesis of Square Prismatic Ag Nanocrystals by the Polyol Method. 2018 , 30, 4617-4623	13
735	Biosensors for pathogen surveillance. 2018 , 16, 1325-1337	17
734	Enhanced bactericidal and photocatalytic activities of ZnO nanostructures by changing the cooling route. 2018 , 42, 11831-11838	16
733	Polyvalent Spherical Nucleic Acids for Universal Display of Functional DNA with Ultrahigh Stability. 2018 , 130, 9583-9586	13
732	Structural stability of binary ($\text{Pd}_{34-n}\text{M}_n$) ($\text{M}=\text{Cu}$), Ag, Au) clusters. 2018 , 137, 1	4
731	Dual molecular recognition strategy for highly sensitive electrochemical detection of dopamine based on amplification of DNA/Au bio-bar codes. 2018 , 823, 253-260	8
730	Reconfigurable Carbon Nanotube Multiplexed Sensing Devices. 2018 , 18, 4130-4135	35
729	Modification of Spectral Behavior of Ketocyanine Dyes by Silver Nanoparticles of Different Sizes. 2019 , 18, 1850022	1
728	Gold Nanoparticles with Ligand/Zwitterion Hybrid Layer for Individual Counting of Influenza A H1N1 Subtype Using Resistive Pulse Sensing. 2019 , 35, 1798-1806	6

727	Dendronized triazolyl-containing ferrocenyl polymers as stabilizers of gold nanoparticles for recyclable two-phase reduction of 4-nitrophenol. 2019 , 533, 161-170	63
726	Bi-phase dispersible Fe ₃ O ₄ @Au core-shell multifunctional nanoparticles: synthesis, characterization and properties. 2019 , 26, 537-549	8
725	Sub-picogram level sensitivity in HIV diagnostics achieved with the europium nanoparticle immunoassay through metal enhanced fluorescence. 2019 , 1, 273-280	4
724	Freezing promoted hybridization of very short DNA oligonucleotides. 2019 , 55, 10300-10303	8
723	Functional DNA Molecules Enable Selective and Stimuli-Responsive Nanoparticles for Biomedical Applications. 2019 , 52, 2415-2426	77
722	Effect of the Nature of Nanoparticles and Biocompatible Polymer Stabilizers on the Sizes and Spectral Characteristics of Hybrid Nanosystems. 2019 , 93, 311-318	
721	Aggregation induced emission of amino-thiol capped gold nanoparticles (GNPs) through metal-amino-coordination. 2019 , 183, 110335	10
720	Drag Force for Asymmetrically Grafted Colloids in Polymer Solutions. 2019 , 7,	1
719	Colorimetric and Near-Absolute Polarization-Insensitive Refractive-Index Sensing in All-Dielectric Guided-Mode Resonance Based Metasurface. 2019 , 123, 19125-19134	19
718	DNA Mini-Barcoding: A Derived Barcoding Method for Herbal Molecular Identification. 2019 , 10, 987	26
717	Nanogold for In Vitro Inhibition of Salmonella Strains. 2019 , 2019, 1-11	3
716	Utilizing the Organizational Power of DNA Scaffolds for New Nanophotonic Applications. 2019 , 7, 1900562	16
715	Dark-Field Microwells toward High-Throughput Direct miRNA Sensing with Gold Nanoparticles. 2019 , 4, 1950-1956	16
714	Antibacterial activity of ZnO and CuO nanoparticles against gram positive and gram negative strains. 2019 , 104, 109968	74
713	Nanocarbons for Biology and Medicine: Sensing, Imaging, and Drug Delivery. <i>Chemical Reviews</i> , 2019 , 119, 9559-9656	68.1 219
712	Silver- and selenium-containing bioactive nanosystems based on zosterin and methylcellulose. 2019 , 92, 408-414	1
711	Synthesis of Silver Nanoparticles and the Development in Analysis Method. 2019 , 217, 012005	12
710	Scanometric Detection of Tomato Leaf Curl New Delhi Viral DNA Using Mono- and Bifunctional AuNP-Conjugated Oligonucleotide Probes. 2019 , 4, 10094-10107	10

709	A dual-mode colorimetric sensor based on copper nanoparticles for the detection of mercury-(II) ions. 2019 , 11, 4014-4021	15
708	Fabrication of Nanoscale Cage Cubes by Drilling Orthogonal, Intersected Holes through All Six Side Faces of Ag Nanocubes. 2019 , 31, 9179-9187	7
707	Tailored Engineering of Bimetallic Plasmonic Au@Ag Core@Shell Nanoparticles. 2019 , 4, 18061-18075	10
706	Colors with plasmonic nanostructures: A full-spectrum review. 2019 , 6, 041308	69
705	Dynamic magnetic properties of monodisperse CoFe ₂ O ₄ nanoparticles synthesized by a facile solvothermal technique. 2019 , 575, 311640	4
704	Current and emerging tools for detecting protozoan cysts and oocysts in water. 2019 , 121, 115695	12
703	Advantages of eutectic alloys for creating catalysts in the realm of nanotechnology-enabled metallurgy. 2019 , 10, 4645	39
702	Wavelength-Dependent Surface Plasmon Coupling Electrochemiluminescence Biosensor Based on Sulfur-Doped Carbon Nitride Quantum Dots for K-RAS Gene Detection. 2019 , 91, 13780-13786	36
701	Sensors and biosensors based on metal oxide nanomaterials. 2019 , 121, 115690	42
700	Periodic table of elements and nanotechnology. 2019 , 29, 479-485	9
699	Smart HS-Triggered/Therapeutic System (SHTS)-Based Nanomedicine. 2019 , 6, 1901724	33
698	Synthesis of stable aqueous colloid of functionalized silver nanorod. 2019 , 12, 1950076	3
697	Metallic nanoparticles as a potential antimicrobial for catheters and prostheses. 2019 , 153-196	1
696	Gold Nanoparticles Adsorb DNA and Aptamer Probes Too Strongly and a Comparison with Graphene Oxide for Biosensing. 2019 , 91, 14743-14750	48
695	Luminescent calcium carbonate micro Bow ties 2019 , 20, 100590	2
694	Environmental application of nanomaterials: A promise to sustainable future. 2019 , 1-54	16
693	Functional Nanomaterials on 2D Surfaces and in 3D Nanocomposite Hydrogels for Biomedical Applications. 2019 , 29, 1904344	39
692	Synthesis and characterization of NiO nanoparticles by chemical as well as green routes and their comparisons with respect to cytotoxic effect and toxicity studies in microbial and MCF-7 cancer cell models. 2019 , 1, 1	18

- 691 Expanding the scope of chemiluminescence in bioanalysis with functional nanomaterials. **2019**, 7, 7257-7266 12
- 690 Zinc doped calcium phosphosilicatebioglass: Study of in-vitro bioactivity and antimicrobial behavior. **2019**,
- 689 Atomic Force Microscopy and the Optical Characteristics of Hybrid Polymeric Nanosystems Based on Silver and Selenium Nanoparticles. **2019**, 13, 586-593 2
- 688 Colloidal stability versus self-assembly of nanoparticles controlled by coiled-coil protein interactions. **2019**, 15, 7122-7126 1
- 687 Interface-Driven Hybrid Materials Based on DNA-Functionalized Gold Nanoparticles. **2019**, 1, 825-847 88
- 686 A Plasmonic Approach to Study Protein Interaction Kinetics through the Dimerization of Functionalized Ag Nanoparticles. **2019**, 9, 13122 1
- 685 A one-pot synthesis of colloidal AgAu nanoparticles with controlled composition. **2019**, 1, 1 3
- 684 Plasmonic bimetallic nanodisk arrays for DNA conformation sensing. **2019**, 11, 19291-19296 4
- 683 Rationally Engineered Nucleic Acid Architectures for Biosensing Applications. *Chemical Reviews*, **2019**, 119, 11631-11717 68.1 114
- 682 Nanotechnology Facets of the Periodic Table of Elements. **2019**, 13, 10879-10886 15
- 681 A non-sacrificial method for the quantification of poly(ethylene glycol) grafting density on gold nanoparticles for applications in nanomedicine. **2019**, 10, 2067-2074 19
- 680 Standardization of research methods employed in assessing the interaction between metallic-based nanoparticles and the blood-brain barrier: Present and future perspectives. **2019**, 296, 202-224 10
- 679 Green synthesis of zinc oxide nanoparticles using different plant extracts and their antibacterial activity against *Xanthomonas oryzae* pv. *oryzae*. **2019**, 47, 341-352 140
- 678 Designing Paper-Based Immunoassays for Biomedical Applications. **2019**, 19, 56
- 677 In situ colorimetric detection of glyphosate on plant tissues using cysteamine-modified gold nanoparticles. **2019**, 144, 2017-2025 28
- 676 Silver-Based Plasmonic Nanoparticles for and Their Use in Biosensing. **2019**, 9, 135
- 675 Robust Antibacterial Activity of Tungsten Oxide (WO) Nanodots. **2019**, 32, 1357-1366 39
- 674 Bioconjugation of Different Nanosurfaces With Biorecognition Molecules for the Development of Selective Nanosensor Platforms. **2019**, 79-94 2

673	Probing and Controlling Dynamic Interactions at Biomolecule-Nanoparticle Interfaces Using Stochastic DNA Walkers. 2019 , 13, 8106-8113	25
672	Synthesis and magnetic properties of Fe-Ni-Zn, Fe-Co-Zn and Co-Ni-Zn nanoparticles by co-precipitation method. 2019 , 49, 163-168	3
671	Thermally stable and hydrophilic CsPbBr ₃ /mPEG-NH ₂ nanocrystals with enhanced aqueous fluorescence for cell imaging. 2019 , 7, 4153-4160	18
670	Gold Nanoparticles. 2019 , 1-29	
669	Plasmonic Paper Microneedle Patch for On-Patch Detection of Molecules in Dermal Interstitial Fluid. 2019 , 4, 1569-1576	28
668	Enhanced synergistic effects from multiple iron oxide nanoparticles encapsulated within nitrogen-doped carbon nanocages for simple and label-free visual detection of blood glucose. 2019 , 30, 355501	6
667	Recent Advancement in the Surface-Enhanced Raman Spectroscopy-Based Biosensors for Infectious Disease Diagnosis. 2019 , 9, 1448	23
666	The Ligand-Exchange Reactions of Rod-Like Au M (M=Au, Ag, Cu, Pd, Pt) Nanoclusters with Cysteine - A Density Functional Theory Study. 2019 , 20, 1822-1829	2
665	A general approach for encapsulating nanoparticles by polystyrene-block-poly(acrylic acid) shell in colloidal. 2019 , 135, 109019	2
664	Laser Ablation Technique for Synthesis of Metal Nanoparticle in Liquid. 2019 ,	7
663	Highly sensitive determination of dopamine based on the aggregation of small-sized gold nanoparticles. 2019 , 147, 955-961	8
662	pH responsive histidin-2-ylidene stabilized gold nanoparticles. 2019 , 199, 110707	7
661	Discovery of and Insights into DNA "Codes" for Tunable Morphologies of Metal Nanoparticles. 2019 , 15, e1900975	24
660	To what extent do polymeric stabilizers affect nanoparticles characteristics?. 2019 , 270, 38-53	31
659	Adsorption of Arsenite on Gold Nanoparticles Studied with DNA Oligonucleotide Probes. 2019 , 35, 7304-7311	34
658	Freezing-Driven DNA Adsorption on Gold Nanoparticles: Tolerating Extremely Low Salt Concentration but Requiring High DNA Concentration. 2019 , 35, 6476-6482	29
657	Binding interaction study on human serum albumin with bactericidal gold nanoparticles synthesized from a leaf extract of <i>Musa balbisiana</i> : a multispectroscopic approach. 2019 , 34, 563-575	5
656	Biofunctional Magnetic Nanomaterials for Diagnosis, Therapy, and Theranostic Applications. 2019 , 341-356	1

655	Cryptosporidium parvum oocyst directed assembly of gold nanoparticles and graphene oxide. 2019 , 13, 608-615	9
654	Synthesis of highly fluorescent nitrogen-rich carbon quantum dots and their application for the turn-off detection of cobalt (II). 2019 , 92, 311-318	22
653	Formation of magic gold fingers under mild and relevant experimental conditions. 2019 , 687, 1-6	2
652	Reproducible Large-Scale Synthesis of Surface Silanized Nanoparticles as an Enabling Nanoproteomics Platform: Enrichment of the Human Heart Phosphoproteome. 2019 , 12, 1473-1481	14
651	Enhanced antiproliferative effect of resveratrol in head and neck squamous cell carcinoma using GE11 peptide conjugated liposome. 2019 , 43, 1635-1642	8
650	Tailoring the photoluminescence of atomically precise nanoclusters. 2019 , 48, 2422-2457	404
649	Flow-through colorimetric assay for detection of nucleic acids in plasma. 2019 , 1066, 102-111	15
648	Non-invasive diagnosis of bladder cancer by detecting telomerase activity in human urine using hybridization chain reaction and dynamic light scattering. 2019 , 1065, 90-97	16
647	One-Dimensional Metal Nanostructures: From Colloidal Syntheses to Applications. <i>Chemical Reviews</i> , 2019 , 119, 8972-9073	68.1 148
646	Plasmon Heating Promotes Ligand Reorganization on Single Gold Nanorods. 2019 , 10, 1394-1401	12
645	Detection of sub-microscopic blood levels of Plasmodium falciparum using Tandem Oligonucleotide Repeat Cascade Amplification (TORCA) assay with an attomolar detection limit. 2019 , 9, 2901	4
644	Electrical characterization of ZnO-coated nanospring ensemble by impedance spectroscopy: probing the effect of thermal annealing. 2019 , 30, 234006	6
643	The assessment of photocatalytic activity of zinc oxide nanoparticles from the roots of Codonopsis lanceolata synthesized by one-pot green synthesis method. 2019 , 184, 82-89	41
642	State-of-the-art strategies for the biofunctionalization of photoactive inorganic nanoparticles for nanomedicine. 2019 , 211-257	5
641	ation of the igh ensitiv Label-Free. 2019 , 9,	11
640	Synthesis of magnetic Fe ₃ O ₄ nanoparticles from scrap iron and use of their peroxidase like activity for phenol detection. 2019 , 7, 103083	11
639	Pd Nanocatalyst Adorning Coral Reef Nanocomposite for the Synthesis of Nitriles: Utility of Leaf Extract as a Stabilizing and Reducing Agent. 2019 , 9,	11
638	Biopebble Containers: DNA-Directed Surface Assembly of Mesoporous Silica Nanoparticles for Cell Studies. 2019 , 15, e1900083	13

637	Palindromic molecular beacon-based intramolecular strand-displacement amplification strategy for ultrasensitive detection of K-ras gene. 2019 , 1065, 98-106	21
636	One-Pot Synthesis of Epirubicin-Capped Silver Nanoparticles and Their Anticancer Activity against Hep G2 Cells. 2019 , 11,	14
635	Specific detection of avian influenza H5N2 whole virus particles on lateral flow strips using a pair of sandwich-type aptamers. 2019 , 134, 123-129	40
634	Silver-Assisted Synthesis of High-Indexed Palladium Tetrahedral Nanoparticles and Their Morphological Variants. 2019 , 31, 2923-2929	8
633	Gold nanorods as a high-pressure sensor of phase transitions and refractive-index gauge. 2019 , 11, 8718-8726	22
632	Optical detection of waterborne pathogens using nanomaterials. 2019 , 113, 280-300	35
631	Reversible Self-Assembly of Nanoprobes in Live Cells for Dynamic Intracellular pH Imaging. 2019 , 13, 1421-1432	27
630	Terminalia bellerica Mediated Green Synthesis of Nanoparticles of Copper, Iron and Zinc Metal Oxides as the Alternate Antibacterial Agents Against some Common Pathogens. 2019 , 9, 365-372	23
629	Shape-selective isolation of Au nanoplates from complex colloidal media by depletion flocculation. 2019 , 568, 216-223	15
628	Magnetic Nanoparticles for Magnetic Resonance Imaging Contrast Agents. 2019 , 228-250	4
627	Gold nanoparticle based fluorescent oligonucleotide probes for imaging and therapy in living systems. 2019 , 144, 1052-1072	25
626	Conjugation of an Helical Peptide to the Surface of Gold Nanoparticles. 2019 , 35, 3363-3371	11
625	Selective Labeling and Decoration of the Ends and Sidewalls of Single-Walled Carbon Nanotubes Using Mono- and Bispecific Solid-Binding Fluorescent Proteins. 2019 , 30, 959-965	6
624	On-chip plasmonic immunoassay based on targeted assembly of gold nanoplasmonic particles. 2019 , 144, 2820-2826	6
623	Malus pumila and Juglen regia plant species mediated zinc oxide nanoparticles: Synthesis, spectral characterization, antioxidant and antibacterial studies. 2019 , 129, 233-241	23
622	Novel polyclonal antibody-based rapid gold sandwich immunochromatographic strip for detecting the major royal jelly protein 1 (MRJP1) in honey. 2019 , 14, e0212335	1
621	From DNA Nanotechnology to Material Systems Engineering. 2019 , 31, e1806294	69
620	Optical Properties of Spherical Metal Nanoparticles Coated with an Oxide Layer. 2019 , 127, 1161-1168	3

619	Application of Gold Nanoparticles for High-Sensitivity Fluorescence Polarization Aptamer Assay for Ochratoxin A. 2019 , 14, 397-404	2
618	Multifunctional magnetic iron oxide nanoparticles: diverse synthetic approaches, surface modifications, cytotoxicity towards biomedical and industrial applications. 2019 , 1,	42
617	Smartphone-Based Point-of-Care Microfluidic Platform Fabricated with a ZnO Nanorod Template for Colorimetric Virus Detection. 2019 , 4, 3298-3307	42
616	Fabrication of zinc oxide nanostructure as antibacterial agent. 2019 ,	1
615	Colorimetric detection of cadmium ions using modified silver nanoparticles. 2019 , 125, 1	11
614	Transformation of Atomically Precise Nanoclusters by Ligand-Exchange. 2019 , 31, 9939-9969	75
613	Optical Absorption of a Composite Based on Bimetallic Nanoparticles. Classical Approach. 2019 , 120, 1040-1046	4
612	Sterculia Gum: Chemical Structure, Composition and Physico-Chemical Properties. 2019 , 32, 1-8	3
611	A novel AIE-active dye for fluorescent nanoparticles by one-pot combination of Hantzsch reaction and RAFT polymerization: synthesis, molecular structure and application in cell imaging.. 2019 , 9, 32601-32607 ⁵	5
610	The appliances and prospects of aurum nanomaterials in biodiagnostics, imaging, drug delivery and combination therapy. 2019 , 14, 349-364	6
609	The Optoelectronic Nose: Colorimetric and Fluorometric Sensor Arrays. <i>Chemical Reviews</i> , 2019 , 119, 231-292	68.1 404
608	A universal colorimetric PCR biosensor based upon triplex formation with the aid of Ru(phen) ₂ dppx ²⁺ . 2019 , 278, 39-45	6
607	Metal Nanomaterials. 2019 , 39-65	
606	Synthesis, structure, stability and phase diagrams of selected bimetallic silver- and nickel-based nanoparticles. 2019 , 64, 139-148	9
605	E-DNA detection of rpoB gene resistance in Mycobacterium tuberculosis in real samples using FeO/polypyrrole nanocomposite. 2019 , 128, 76-82	25
604	Nanobiosensor approaches for pollutant monitoring. 2019 , 17, 975-990	19
603	Freezing-directed Stretching and Alignment of DNA Oligonucleotides. 2019 , 58, 2109-2113	25
602	Freezing-directed Stretching and Alignment of DNA Oligonucleotides. 2019 , 131, 2131-2135	10

601	Designed and Evolved Nucleic Acid Nanotechnology: Contrast and Complementarity. 2019 , 30, 2-12	2
600	Structure-function relationships of nonviral gene vectors: Lessons from antimicrobial polymers. 2019 , 86, 15-40	36
599	DNA as a target for lanthanide(III) complexes influence. 2019 , 382, 145-159	37
598	Nanoparticles as a potential teratogen: a lesson learnt from fruit fly. 2019 , 13, 258-284	17
597	Rapid Size-Focusing of Gold Nanoclusters with an Oxidant. 2019 , 30, 1-4	16
596	Synthesis and Bioconjugation of Hybrid Nanostructures for Biomedical Applications. 2019 , 17-41	7
595	Engineering an aptamer-based recognition sensor for electrochemical opium alkaloid biosensing. 2019 , 30, 3432-3442	8
594	Universal DNA biosensing based on instantaneously electrostatic attraction between hexaammineruthenium (III) and DNA molecules. 2019 , 127, 101-107	4
593	A facile route to diatoms decorated with gold nanoparticles and their optical properties. 2019 , 8, 81-85	1
592	Integrating DNA Photonic Wires into Light-Harvesting Supramolecular Polymers. 2019 , 58, 751-755	31
591	Rational Approach Towards Designing Metallogels From a Urea-Functionalized Pyridyl Dicarboxylate: Anti-inflammatory, Anticancer, and Drug Delivery. 2019 , 14, 194-204	11
590	Applications of Nanotechnology and Carbon Nanoparticles in Agriculture. 2019 , 247-277	25
589	Composite materials based on Ag nanoparticles in situ synthesized on the vaterite porous matrices. 2019 , 30, 035603	6
588	Integrating DNA Photonic Wires into Light-Harvesting Supramolecular Polymers. 2019 , 131, 761-765	7
587	Antiviral and Antimicrobial Potentiality of Nano Drugs. 2019 , 343-356	10
586	MicroRNA sensors based on gold nanoparticles. 2019 , 411, 1807-1824	31
585	L-glutathione capped CdSeS/ZnS quantum dot sensor for the detection of environmentally hazardous metal ions. 2019 , 206, 105-112	17
584	Quenching of Luminol Fluorescence at Nano-Bio Interface: Towards the Development of an Efficient Energy Transfer System. 2019 , 29, 165-176	1

583	Helicene-SPP-Based Chiral Plasmonic Hybrid Structure: Toward Direct Enantiomers SERS Discrimination. 2019 , 11, 1555-1562	35
582	Probing NAD ⁺ /NADH-dependent biocatalytic transformations based on oxidase mimics of MnO ₂ . 2019 , 282, 896-903	20
581	Morphological, plasmonic and enhanced antibacterial properties of Ag nanoparticles prepared using Zingiber officinale extract. 2019 , 126, 257-266	8
580	Electrophilic substitution reaction as a facile and general approach for reactive removal of native ligands from nanocrystals surface. 2019 , 30, 015701	
579	Recent Developments in Green Synthesis of Metal Nanoparticles Utilizing Cyanobacterial Cell Factories. 2019 , 237-265	9
578	Molecular dynamics simulation of alloying during sintering of Li and Pb metallic nanoparticles. 2019 , 156, 47-55	17
577	Aggregation of Ag(0) nanoparticles to unexpected stable chain-like assemblies mediated by 2,2'-bipyridine decorated peptoids. 2019 , 533, 598-603	7
576	AFM induced self-assembling and self-healing mechanism of silicon oxide nanoparticle linear array domains templated on Moiré superlattice patterns on HOPG. 2019 , 679, 230-239	2
575	Targets regulated formation of boron nitride quantum dots [Gold nanoparticles nanocomposites for ultrasensitive detection of acetylcholinesterase activity and its inhibitors. 2019 , 279, 61-68	45
574	Application of nanoparticle modified with crown ether in colorimetric determinations. 2019 , 12, 3096-3107	10
573	Controlled radiation-chemical synthesis of metal polymer nanocomposites in the films of interpolyelectrolyte complexes: Principles, prospects and implications. 2020 , 169, 108076	15
572	Biotechnological applications of nanostructured hybrids of polyamine carbon quantum dots and iron oxide nanoparticles. 2020 , 52, 301-311	6
571	Green synthesis and characterization of gold triangular nanoprisms using extract of Juniperus communis L.. 2020 , 10, 2835-2841	13
570	An aptamer-based colorimetric lateral flow assay for the detection of human epidermal growth factor receptor 2 (HER2). 2020 , 588, 113471	35
569	Eco-friendly synthesis and biomedical applications of gold nanoparticles: A review. 2020 , 152, 104296	59
568	Role of nanotechnology in the detection of mycotoxins. 2020 , 11-33	2
567	Application of Nanodiagnostics in Viral Infectious Diseases. 2020 , 179-195	3
566	Cadmium and iron decorated ZnO nanoparticles: Effects on physical, electrochemical and antibacterial performance. 2020 , 46, 5278-5288	5

565	Pink all-inorganic halide perovskite nanocrystals with adjustable characteristics: Fully reversible cation exchange, improving the stability of dopant emission and light-emitting diode application. 2020 , 818, 152913	12
564	On-bead enzyme-catalyzed signal amplification for the high-sensitive detection of disease biomarkers. 2020 , 630, 179-197	
563	Cobalt Oxyhydroxide-prompted Synthesis of Fluorescent Polydopamine Nanoparticles for Glutathione Detection. 2020 , 36, 347-352	1
562	DNA-Functionalized Plasmonic Nanomaterials for Optical Biosensing. 2020 , 15, e1800741	18
561	Robust and multiplexed colorimetric immunoassay for cardiovascular disease biomarkers detection in serum with high specificity. 2020 , 152, 104334	3
560	Nucleic acid based nanodevices in biological imaging and their therapeutic use. 2020 , 55, 101497	1
559	Manipulating the hydrophobicity of DNA as a universal strategy for visual biosensing. 2020 , 15, 316-337	5
558	The Calculated Dielectric Function and Optical Properties of Bimetallic Alloy Nanoparticles. 2020 , 124, 2721-2727	8
557	A nanobiosensor for the simple detection of small molecules using non-crosslinking aggregation of gold nanoparticles with G-quadruplexes. 2020 , 12, 230-238	3
556	A palindromic-based strategy for colorimetric detection of HIV-1 nucleic acid: Single-component assembly of gold nanoparticle-core spherical nucleic acids. 2020 , 1102, 119-129	11
555	Preparation, Characterization, and Evaluation of Zinc Oxide Nanoparticles Suspension as an Antimicrobial Media for Daily Use Soft Contact Lenses. 2020 , 45, 931-939	4
554	Dipole moment effects in dopamine/N-doped-graphene systems. 2020 , 693, 121546	1
553	Highly Stable Colorimetric Sensing by Assembly of Gold Nanoparticles with SYBR Green I: From Charge Screening to Charge Neutralization. 2020 , 92, 1455-1462	23
552	The role of artificial intelligence in scaling nanomedicine toward broad clinical impact. 2020 , 385-407	6
551	High Quantum Yield Fluorescent Carbon Nanodots for detection of Fe (III) Ions and Electrochemical Study of Quenching Mechanism. 2020 , 209, 120538	21
550	An analytical method to control the surface density and stability of DNA-gold nanoparticles for an optimized biosensor. 2020 , 187, 110650	14
549	Gamma radiation and Polyvinyl pyrrolidone mediated synthesis of Zinc oxide /Zinc sulfide nanoparticles and evaluation of their antifungal effect on pre and post harvested orange and pomegranate fruits. 2020 , 29, 101728	3
548	Investigating Silver Nanoparticle Interactions with Quaternary Ammonium Functionalized Triblock Copolymers and Their Effect on Midblock Crystallinity. 2020 , 2, 4914-4923	3

547	A new dipeptide as a selective gelator of Cu(II), Zn(II), and Pb(II). 2020 , 22, 7975-7982	2
546	Recent advances in chiral carbonized polymer dots: From synthesis and properties to applications. 2020 , 34, 100953	41
545	A selective pink-to-purple colorimetric sensor for aluminium via the aggregation of gold nanoparticles. 2020 , 108, 110177	6
544	Formation of metal nanostructures under X-ray radiation in films of interpolyelectrolyte complexes with different silver ion content. 2020 , 69, 1731-1739	7
543	Toward all on chip optical detection in the few molecule regime. 2020 , 169, 112600	1
542	Quantitative Imaging of Biochemistry and at the Nanoscale. 2020 , 6, 1938-1954	14
541	Interfacing Catalytic DNA with Nanomaterials. 2020 , 7, 2001017	14
540	Bactericidal activity of silver nanoparticles: A mechanistic review. 2020 , 3, 756-769	53
539	Synthesis of gadolinium nanoparticles in spinach-extracted liquid using a pulse laser ablation method. 2020 , 1524, 012024	
538	Seeing Ligands on Nanoclusters and in Their Assemblies by X-ray Crystallography: Atomically Precise Nanochemistry and Beyond. 2020 , 142, 13627-13644	42
537	Aggregation-Mode-Dependent Optical Properties of Cationic Gold Clusters: Formation of Ordered Assemblies in Solution and Unique Optical Responses. 2020 , 124, 16209-16215	6
536	Novel CoNi-metal-organic framework crystal-derived CoNi@C: synthesis and effective cascade catalysis. 2020 , 49, 10567-10573	3
535	Chemo/bionanosensors for medical applications. 2020 , 483-500	1
534	Comparison of the performance of two aptamers on a colorimetric assay for the quantification of FB1. 2020 ,	
533	Microfluidic Isolation and Enrichment of Nanoparticles. 2020 ,	15
532	Synthesis of single CsPbBr ₃ @SiO ₂ core-shell particles via surface activation. 2020 , 8, 17403-17409	12
531	CO ₂ Conversion on Ligand-Protected Au ₂₅ Nanoparticle: The Role of Structural Inhomogeneity in the Promotion of the Electrocatalytic Process. 2020 , 258, 2000387	1
530	Nano- and biosensors for the detection of SARS-CoV-2: challenges and opportunities. 2020 , 1, 3092-3103	50

529	Nanoproteomics enables proteoform-resolved analysis of low-abundance proteins in human serum. 2020 , 11, 3903	24
528	Effect of neodymium stimulation on the dielectric, magnetic and humidity sensing properties of iron oxide nanoparticles. 2020 , 254, 123572	5
527	Heating Drives DNA to Hydrophobic Regions While Freezing Drives DNA to Hydrophilic Regions of Graphene Oxide for Highly Robust Biosensors. 2020 , 142, 14702-14709	23
526	Photoactivation Strategies for Therapeutic Release in Nanodelivery Systems. 2020 , 3, 2000117	6
525	Tantalum network nanoparticles from a Ta ₂ O ₅ +kMg system by liquid magnesium controlled combustion. 2020 , 219, 136-146	2
524	Highly selective and sensitive tool for the detection of Hg(II) using 3-(Trimethoxysilyl) propyl methacrylate functionalized Ag-Ce nanocomposite from real water sample. 2020 , 242, 118738	9
523	A novel fluorescent DNA sensor system based on polydopamine modified MgAl-layered double hydroxides. 2020 , 37, 100294	8
522	Dual-Product Synergistically Enhanced Colorimetric Assay for Sensitive Detection of Lipid Transferase Activity. 2020 , 92, 15236-15243	2
521	Size-Transformable Nanostructures: From Design to Biomedical Applications. 2020 , 32, e2003752	22
520	Organic cage supported metal nanoparticles for applications. 2020 , 49, 15574-15586	5
519	Nanostructured and Spiky Gold Shell Growth on Magnetic Particles for SERS Applications. 2020 , 10,	2
518	Metallic-based nanocarriers: methods employed in nanoparticle characterization and assessing the interaction with the bloodBrain barrier. 2020 , 255-282	
517	Synthesis, characterization and applications of poly(vinyl chloride) nanocomposites loaded with metal oxide nanoparticles. 2020 , 78, 5481	4
516	Designing Metallogelators Derived from NSAID-based Zn(II) Coordination Complexes for Drug-Delivery Applications. 2020 , 15, 3558-3567	1
515	Zn(II)-Coordination Polymers with a Right- and Left-Handed Twist: Multifunctional MetalOrganic Hybrid for Dye Adsorption and Drug Delivery. 2020 , 20, 7411-7420	6
514	Threading Intercalator-Induced Nanocondensates and Role of Endogenous Metal Ions in Decondensation for DNA Delivery.. 2020 , 3, 6979-6991	7
513	Potential of TiO with Various Au Nanoparticles for Catalyzing Mesotrione Removal from Wastewaters under Sunlight. 2020 , 10,	3
512	Dissecting the Effect of Salt for More Sensitive Label-Free Colorimetric Detection of DNA Using Gold Nanoparticles. 2020 , 92, 13354-13360	25

511	Glycan-Gold Nanoparticles as Multifunctional Probes for Multivalent Lectin-Carbohydrate Binding: Implications for Blocking Virus Infection and Nanoparticle Assembly. 2020 , 142, 18022-18034	20
510	DNA Nanotechnology. 2020 ,	
509	Plasmon-generated hot holes for chemical reactions. 2020 , 13, 3183-3197	25
508	Kanamycin Adsorption on Gold Nanoparticles Dominates Its Label-Free Colorimetric Sensing with Its Aptamer. 2020 , 36, 11490-11498	17
507	Thioglucopyranose Ligands Promote Phase-Transfer of Cadmium Selenide Quantum Dots from Organic Solvents to Water. 2020 , 5, 14783-14787	
506	Aptamer Functionalized Lipid Multilayer Gratings for Label-Free Analyte Detection. 2020 , 10,	1
505	Advanced integrative sensing technologies for detection of drug-resistant tuberculosis in point-of-care settings. 2020 , 1, 100036	2
504	Gene Regulation Using Spherical Nucleic Acids to Treat Skin Disorders. 2020 , 13,	1
503	Stronger Adsorption of Phosphorothioate DNA Oligonucleotides on Graphene Oxide by van der Waals Forces. 2020 , 36, 13708-13715	6
502	Using DNA to Control the Mechanical Response of Nanoparticle Superlattices. 2020 , 142, 19181-19188	8
501	Fabrication and characterization of Al/glass zig-zag thin film, comparing to the discrete dipole approximation results. 2020 , 93, 1	
500	Biofriendly and competent domestic microwave assisted method for the synthesis of ZnO nanoparticles from the extract of Azadirachta indica leaves. 2020 , 33, 3160-3163	2
499	Nanoparticles: Synthesis, Morphophysiological Effects, and Proteomic Responses of Crop Plants. 2020 , 21,	21
498	Magnetic-plasmonic yolk-shell nanostructure-based plasmon-enhanced electrochemiluminescence sensor. 2020 , 319, 128245	13
497	Bifunctional Nanomaterials for Enhanced Cell Proliferation and for the Reduction of Bacterial Bioluminescence/Fitness. 2020 , 7, 2000086	7
496	Nanomaterials and Nanotechnology-Associated Innovations against Viral Infections with a Focus on Coronaviruses. 2020 , 10,	76
495	Dual-Readout Sandwich Immunoassay for Device-Free and Highly Sensitive Anthrax Biomarker Detection. 2020 , 92, 7845-7851	11
494	Nanomaterials and nanocomposite applications in veterinary medicine. 2020 , 583-638	2

493	9. Micro and nanocapsules as supports for Surface- Enhanced Raman Spectroscopy (SERS). 2020 , 233-256	
492	Integration of nanomaterials with nucleic acid amplification approaches for biosensing. 2020 , 129, 115959	15
491	DNA-Based Nanostructures for Live-Cell Analysis. 2020 , 142, 11343-11356	75
490	2 Behaviors of gold nanoparticles. 2020 , 33-68	
489	Nanotechnology: A Novel Approach for Drug Development in Health Care System. 2020 , 5, 12-25	2
488	Ultrathin Octahedral CuPt Nanocages Obtained by Facet Transformation from Rhombic Dodecahedral CoreShell Nanocrystals. 2020 , 8, 10544-10553	7
487	Newly prepared surface-enhanced Raman scattering-active substrates for sensing pesticides. 2020 , 861, 113965	1
486	Determining the Interfacial Refractive Index via Ultrasensitive Plasmonic Sensors. 2020 , 142, 10905-10909	20
485	Dopamine and Melamine Binding to Gold Nanoparticles Dominates Their Aptamer-Based Label-Free Colorimetric Sensing. 2020 , 92, 9370-9378	58
484	Good's buffers have various affinities to gold nanoparticles regulating fluorescent and colorimetric DNA sensing. 2020 , 11, 6795-6804	13
483	Reversible pH Responsive Bovine Serum Albumin Hydrogel Sponge Nanolayer. 2020 , 8, 573	4
482	Introduction to Bionanotechnology. 2020 ,	3
481	A gold nanoparticle-based colorimetric mercury(II) biosensor using a DNA probe with phosphorothioate RNA modification and exonuclease III-assisted signal amplification. 2020 , 187, 214	5
480	Sensitive Colorimetric Detection of Prostate Specific Antigen Using a Peroxidase-Mimicking Anti-PSA Antibody Coated Au Nanoparticle. 2020 , 14, 158-168	11
479	Accelerated non-crosslinking assembly of DNA-functionalized nanoparticles in alcoholic solvents: for application in the identification of clear liquors. 2020 , 145, 3229-3235	9
478	Nanoparticles in Biology and Medicine. 2020 ,	3
477	DNA-Programmed Chemical Synthesis of Polymers and Inorganic Nanomaterials. 2020 , 378, 31	6
476	Light sources for photonanotechnology. 2020 , 1-21	1

475	Nanoconjugates for detection of waterborne bacterial pathogens. 2020 , 363-384	0
474	Moderate Static Magnetic Field (6 mT)-Induced Lipid Rafts Rearrangement Increases Silver NPs Uptake in Human Lymphocytes. 2020 , 25,	2
473	Nanomaterial-based Optical Biosensors for the Detection of Foodborne Bacteria. 2020 , 1-30	18
472	Rapid determination of the pesticide ametryn based on a colorimetric aptasensor of gold nanoparticles. 2020 , 12, 1919-1925	6
471	DNA-Modulated Plasmon Resonance: Methods and Optical Applications. 2020 , 12, 14741-14760	14
470	Upconversion nanocrystals for near-infrared-controlled drug delivery. 2020 , 345-371	
469	Nanosensors for better diagnosis of health. 2020 , 187-228	0
468	Infrared Thin Film Detectors Based on Thermoresponsive Microgels with Linear Shrinkage Behavior and Gold Nanorods. 2020 , 12, 34180-34189	6
467	Functionalized gold nanoparticles with zinc finger-fused proteins as a colorimetric immunoassay platform. 2020 , 1126, 154-162	3
466	Au-doped photonic crystal allows naked-eye determination of small organic molecules. 2020 , 321, 128493	4
465	A density functional theory study of structural, electronic and optical properties of 9-atom silver-copper clusters. 2020 , 25, 101248	3
464	Nanomaterials properties. 2020 , 343-359	9
463	Preparation, Characterization, and Swelling Behavior of PEGylated Guar Gum @ Ag Nanoparticles. 2020 ,	
462	Detection and removal of biological contaminants in water: the role of nanotechnology. 2020 , 69-110	2
461	Chemical sensing platforms for detecting trace-level Alzheimer's core biomarkers. 2020 , 49, 5446-5472	25
460	Quantitative Analysis of the Multiple Roles Played by Halide Ions in Controlling the Growth Patterns of Palladium Nanocrystals. 2020 , 6, 576-588	10
459	Aptamer-functionalized nanomaterials for biological applications. 2020 , 4, 1569-1585	22
458	Particle-substrate interactions in the laser deposition process. 2020 , 31, 245304	0

457	Highly sensitive and strongly fluorescent gum tragacanth based superabsorbent hydrogel as a new biosensor for glucose optical detection. 2020 , 8, 4148-4156	19
456	Observation of propagating surface plasmon polaritons by using functionalized tip-enhanced Raman spectroscopy. 2020 , 51, 1270-1277	3
455	A novel DNA sensor of homogeneous electrochemical signal amplification strategy. 2020 , 156, 104777	4
454	Development of Novel Magnetoliposomes Containing Nickel Ferrite Nanoparticles Covered with Gold for Applications in Thermotherapy. 2020 , 13,	6
453	Preparation of Cellulose/Silver Composite Particles Having a Recyclable Catalytic Property. 2020 , 5, 1919-1926	12
452	Nano Sized ZnO/MnO ₂ /Gd ₂ O ₃ Ternary Heterostructures for Enhanced Photocatalysis. 2020 , 5, 36-46	6
451	Concentric DNA Amplifier That Streamlines In-Solution Biorecognition and On-Particle Biocatalysis. 2020 , 92, 3220-3227	10
450	Streptavidin-Coated Au Nanoparticles Coupled with Biotinylated Antibody-Based Bifunctional Linkers as Plasmon-Enhanced Immunobiosensors. 2020 , 3, 1900-1909	10
449	Gold nanorods: new generation drug delivery platform. 2020 , 59-84	1
448	An overview of functional nanoparticles as novel emerging antiviral therapeutic agents. 2020 , 112, 110924	108
447	Electrochemical aptasensors based on the gold nanostructures. 2020 , 216, 120999	29
446	Fluorescent Polyaniline Nanoclips (PANCs): A Highly Sensitive and Selective Chemical Sensor for the Detection of Hg (II) Ions in Aqueous Media. 2020 , 5, 4481-4487	5
445	Preparation, surface functionalization and application of FeO magnetic nanoparticles. 2020 , 281, 102165	116
444	Supramolecular Polymerization: A Conceptual Expansion for Innovative Materials. 2020 , 105, 101250	68
443	A conjugated gold nanoparticle-azacyanine off-on-off fluorescence probe for sensitive and selective detection of G-quadruplexes. 2020 , 217, 121076	6
442	Sugar-Based Aggregation-Induced Emission Luminogens: Design, Structures, and Applications. <i>Chemical Reviews</i> , 2020 , 120, 4534-4577	68.1 86
441	Novel approach to the formation of silver-containing nanocomposites by thermochemical reduction of Ag ⁺ ions in interpolyelectrolyte-metal complexes. 2020 , 10, 5409-5419	4
440	Visible light activated antimicrobial silver oxide thin films. 2020 , 179-239	1

439	Modified Drude model for small gold nanoparticles surface plasmon resonance based on the role of classical confinement. 2020 , 10, 6517	14
438	Attachment of hybridizable oligonucleotides to a silica support and its application for selective extraction of unmodified and antisense oligonucleotides from serum samples.. 2020 , 10, 16221-16230	3
437	Atomic electron tomography in three and four dimensions. 2020 , 45, 290-297	16
436	Preparation of oriented gold plate/cellulose nanofiber composite films by using TEMPO-oxidized cellulose nanofiber as a reducing agent. 2021 , 27, 1039-1049	0
435	Green fabrication of 2D platinum superstructures and their high catalytic activity for mitigation of organic pollutants. 2021 , 360, 185-193	7
434	Synthesis, biocompatibility and gene encapsulation of poly(2-Ethyl 2-Oxazoline)-dioleoyl phosphatidylethanolamine (PEtOx-DOPE) and post-modifications with peptides and fluorescent dye coumarin. 2021 , 70, 981-993	4
433	Recent advances in biosensors for in vitro detection and in vivo imaging of DNA methylation. 2021 , 171, 112712	29
432	Non-viral, direct neuronal reprogramming from human fibroblast using a polymer-functionalized nanodot. 2021 , 32, 102316	2
431	Self-Assemblies of Fe ₃ O ₄ Nanocrystals: Toward Nanoscale Precision of Photothermal Effects in the Tumor Microenvironment. 2021 , 31, 2006824	15
430	Highly stable and luminescent silica-coated perovskite quantum dots at nanoscale-particle level via nonpolar solvent synthesis. 2021 , 407, 128001	29
429	Sol-gel synthesized Mg _{0.4} Ag _{0.6} Mn nanoferrites for Power Applications. 2021 , 97, 205-212	9
428	Label-Free Colorimetric Biosensors Based on Aptamers and Gold Nanoparticles: A Critical Review. 2021 , 1, 30-43	11
427	Enzyme-free Recycling Amplification-based Sensitive Electrochemical Thrombin Aptasensor. 2021 , 33, 1152-1159	1
426	Coordination polymers nanoparticles for bioimaging. 2021 , 432, 213716	23
425	Colorimetric aptasensor for sensitive detection of kanamycin based on target-triggered catalytic hairpin assembly amplification and DNA-gold nanoparticle probes. 2021 , 162, 105858	9
424	Enhanced photophysical properties of silica-methylene blue@amorphous carbon as fluorochromes with modulated Raman-active vibration modes. 2021 , 406, 112987	2
423	Optical Biosensors for Virus Detection: Prospects for SARS-CoV-2/COVID-19. 2021 , 22, 1176-1189	51
422	Advances in Dental Implantology using Nanomaterials and Allied Technology Applications. 2021 ,	0

421	Super-Resolution Characterization of Heterogeneous Light-Matter Interactions between Single Dye Molecules and Plasmonic Nanoparticles. 2021 , 93, 430-444	3
420	The nucleobase assisted pyrene functionalization of gold nanoparticles. 2021 , 45, 9478-9482	0
419	Cytosolic delivery of membrane-penetrating QDs into T cell lymphocytes: implications in immunotherapy and drug delivery. 2021 , 13, 5519-5529	3
418	Impact of zinc nanoparticles on aquatic ecosystems: Risks and benefits. 2021 , 433-456	
417	Quercetin-gold nanorods incorporated into nanofibers: development, optimization and cytotoxicity.. 2021 , 11, 19956-19966	4
416	Nanomaterials for bioimaging studies. 2021 , 19-34	
415	Role of Magnetic Anisotropy on the Hyperthermia Efficiency in Spherical Fe ₃ Co _x O ₄ (x = 0-1) Nanoparticles. 2021 , 11, 930	6
414	Proteomic Analysis to Understand Mechanism in Crop Against Nanoparticles. 2021 , 718-729	1
413	Stimulus-responsive gold nanotheranostic platforms for targeting the tumor microenvironment. 2021 , 201-232	1
412	Preparation of ZnO nanoflakes and assessment of their removal of HCN, NO ₂ and SO ₂ toxic gases. 2021 , 112, 10-16	
411	Development of a 4-Nitrophenylhydrazine Sensor Based on MgTi ₂ O ₄ ?TiO ₂ ?Zn ₂ TiO ₄ Nanomaterials. 2021 , 6, 323-331	
410	Bioprobe-conjugate polymeric micro/nanoparticles as detection tools for infectious diseases. 2021 , 567-595	1
409	A combined experimental and theoretical rationalization of an unusual zinc(II)-mediated conversion of 18-membered Schiff-base macrocycles to 18-membered imineimine macrocycles with imidazolidine side rings: an investigation of their bio-relevant catalytic activities. 2021 , 45, 2550-2562	2
408	Thermogravimetric analysis (TGA) of some synthesized metal oxide nanoparticles. 2021 , 43, 655-659	2
407	Controlling the growth of a SiO ₂ coating on hydrophobic CsPbBr ₃ nanocrystals towards aqueous transfer and high luminescence. 2021 , 13, 3860-3867	13
406	Significance of Nanoscience in Food Microbiology: Current Trend and Future Prospects. 2021 , 249-267	1
405	Zinc nanomaterials: Toxicological effects and veterinary applications. 2021 , 509-541	1
404	Fabrication of PAA-AuNP-BSA core-shell-corona nanoparticles for flexible spatiotemporal drug delivery and SERS detection. 2021 , 9, 4440-4447	2

403	Fenton with zero-valent iron nanoparticles (nZVI) processes: Role of nanomaterials. 2021 , 847-866	
402	Development of Multifunctional Materials Based on Poly(ether ether ketone) with Improved Biological Performances for Dental Applications. 2021 , 14,	2
401	Nanoparticle surface energy transfer (NSET) in ferroelectric liquid crystal-metallic-silver nanoparticle composites: Effect of dopant concentration on NSET parameters. 2021 , 103, 022708	2
400	A Facile Synthesis of GO/CuO Nanocomposite with Enhancing Photocatalytic Activity for the Degradation of Azure-B Dye and Its Antimicrobial Behavior. 1	0
399	Elucidating the Quenching Mechanism in Carbon Dot-Metal Interactions-Designing Sensitive and Selective Optical Probes. 2021 , 21,	4
398	Rationally Programming Nanomaterials with DNA for Biomedical Applications. 2021 , 8, 2003775	14
397	A General Approach for Monolayer Adsorption of High Weight Loadings of Uniform Nanocrystals on Oxide Supports. 2021 , 60, 7971-7979	0
396	Synthesis and characterization of ZnO nanoparticles using aqueous extract of <i>Becium grandiflorum</i> for antimicrobial activity and adsorption of methylene blue. 2021 , 11, 1	12
395	Production of silver nanoparticles from <i>Atalantia monophylla</i> (L) plant resin and their enhanced antibacterial efficacy. 2021 , 11, 85-91	1
394	Anchoring Drugs to a Zinc(II) Coordination Polymer Network: Exploiting Structural Rationale toward the Design of Metallogels for Drug-Delivery Applications. 2021 , 60, 3218-3231	2
393	A General Approach for Monolayer Adsorption of High Weight Loadings of Uniform Nanocrystals on Oxide Supports. 2021 , 133, 8050-8058	1
392	Complexes of Polyethylenimine with Copper and Cobalt Ions as Precursors for Preparing Metal Nanoparticles. 2021 , 94, 210-216	
391	Essential Nanominerals and Other Nanomaterials in Poultry Nutrition and Production.	3
390	Dual-emission fluorescence biosensing of vancomycin based on AIEgen-peptide conjugates and aptamer-modified Au nanoclusters. 2021 , 1150, 238177	4
389	Advances in single-molecule fluorescent nanosensors. 2021 , 13, e1716	5
388	An efficient colorimetric inspection of ammonia using silver nanoparticles synthesized by 3-(1-(2-(2,4-dinitrophenyl)hydrazono)ethyl)-1H-indole as chemo-sensors in water environment. 2021 , 34, e4205	0
387	Nanomaterials (NMs) for Biological Sample Preparations. 2021 , 147-171	
386	Probing Biosensing Interfaces With Single Molecule Localization Microscopy (SMLM). 2021 , 9, 655324	0

385	Reactive oxygen species: the root cause of nanoparticle-induced toxicity in. 2021 , 55, 671-687	2
384	DNA Nanoengineering and DNA-Driven Nanoparticle Assembly. 2021 , 1-41	
383	Employing Nanosilver, Nanocopper, and Nanoclays in Food Packaging Production: A Systematic Review. 2021 , 11, 509	9
382	Recent Advances in Nanomaterial-Based Aptasensors in Medical Diagnosis and Therapy. 2021 , 11,	4
381	Tuning optical properties of self-assembled nanoparticle network with external optical excitation. 2021 , 129, 153106	
380	Large Area Patterning of Nanoparticles and Nanostructures: Current Status and Future Prospects. 2021 , 15, 5861-5875	16
379	Nucleic Acids-based Functional Nanomaterials for Bioimaging. 2021 , 5, 142-154	6
378	The Peptide Functionalized Inorganic Nanoparticles for Cancer-Related Bioanalytical and Biomedical Applications. 2021 , 26,	7
377	Role of magnetic nanoparticle (MNPs) in cancer treatment: A review. 2021 ,	4
376	Ultrasensitive Electrochemical Sensing of Biotin-Avidin Interaction on Gold Electrode Bio-Conjugated With Silver Nanoparticles. 2021 , 21, 10400-10408	2
375	Plasmonic Sensing: Connecting the Dots. 2021 , 12, 4697-4705	2
374	Mycosynthesis of zinc oxide nanoparticles using <i>Pleurotus florida</i> and optimization of process parameters. 2021 , 47, 12375-12380	4
373	Green Synthesis of Zinc Oxide Nanoparticles (ZnO NPs) using Aqueous Extract of <i>Tagetes Erecta</i> flower and Evaluation of its Antioxidant, Antimicrobial, and Cytotoxic activities on HeLa cell line.. 2021 , 10, 61-76	3
372	Controlled Assembly of Plasmonic Nanoparticles: From Static to Dynamic Nanostructures. 2021 , 33, e2007668	18
371	Stimuli-Responsive, Hydrolyzable Poly(Vinyl Laurate--vinyl Acetate) Nanoparticle Platform for In Situ Release of Surfactants. 2021 , 13, 25553-25562	3
370	Programmable Metal Nanoclusters with Atomic Precision. 2021 , 33, e2006591	18
369	Optomechanic Coupling in Ag Polymer Nanocomposite Films. 2021 , 125, 14854-14864	5
368	Hairpin-Spherical Nucleic Acids for Diagnosing COVID-19: a Simple Method to Generalize the Conventional PCR for Molecular Assays. 2021 , 93, 9250-9257	3

367	Nanominerals: Fabrication Methods, Benefits and Hazards, and Their Applications in Ruminants with Special Reference to Selenium and Zinc Nanoparticles. 2021 , 11,	26
366	Enhancement of Optical Nonlinearity in the Triangular Gold Nanoplates on Indium Tin Oxide. 2021 , 13, 1-8	0
365	A review on recent trends of antiviral nanoparticles and airborne filters: special insight on COVID-19 virus. 2021 , 1-14	4
364	Experimental Study of the Deposition of Magnetic Particles on the Walls of Microchannels. 2021 , 12,	1
363	Smart Therapeutic Strategy of pH-Responsive Gold Nanoparticles for Combating Multidrug Resistance. 2021 , 38, 2100073	1
362	Short DNA-catalyzed formation of quantum dot-DNA hydrogel for enzyme-free femtomolar specific DNA assay. 2021 , 182, 113110	9
361	Antioxidants: Classification, Natural Sources, Activity/Capacity Measurements, and Usefulness for the Synthesis of Nanoparticles. 2021 , 14,	31
360	Microbial Biosensors as Pesticide Detector: An Overview. 2021 , 2021, 1-9	4
359	Graphene oxide/Au nanoparticles: Synthesis, properties, and application: A mini-review. 2021 , 45, 19772	0
358	Carboxymethyl cellulose stabilized lead sulfide nanocrystals: Synthesis, characterization and catalytic applications. 2021 , 620, 126572	2
357	Recent progress in plasmonic nanoparticle-based biomarker detection and cytometry for the study of central nervous system disorders. 2021 , 99, 1067-1078	2
356	optical coherence tomography analysis of gold and silver nanoparticles in endodontic irrigating solutions: An study. 2021 , 22, 992	2
355	Facile synthesis of metal and alloy nanoparticles by ultrasound-assisted dealloying of metallic glasses. 2021 , 82, 144-152	2
354	Biological Potential of Silver Nanoparticles Mediated by and Extracts. 2021 , 11,	6
353	Understanding the Role of Poly(vinylpyrrolidone) in Stabilizing and Capping Colloidal Silver Nanocrystals. 2021 , 15, 14242-14252	2
352	Optical Properties of CaNb ₂ O ₆ Single Crystals Grown by OFZ*. 2021 , 11, 928	2
351	Gold Nanoparticles: Multifaceted Roles in the Management of Autoimmune Disorders. 2021 , 11,	4
350	Effective Antiplasmodial and Cytotoxic Activities of Synthesized Zinc Oxide Nanoparticles Using Leaf Extract. 2021 , 2021, 5586740	3

349	A universal and sensitive sensing platform for biomolecular detection based on the hybridization chain reaction amplification and gold nanoparticles colorimetry. 2021 , 167, 106319	1
348	DNAzymes as Biosensors. 2021 , 685-720	
347	Smartphone-assisted colorimetric sensing of enzyme-substrate system using pH-responsive gold nanoparticle assembly. 2021 , 1178, 338804	3
346	Selectivity of diallyl trisulfides (DATS) in reducing H ₂ AuCl ₄ to produce gold nanoparticles: a detailed investigation. 2021 , 133, 1	
345	Spherical Nucleic Acids: Integrating Nanotechnology Concepts into General Chemistry Curricula.. 2021 , 98, 3090-3099	0
344	Self-Assemblies of Nanocrystals in Tumor Cells: Controlling the Intracellular Fate, Manipulation, and Photothermal Effects. 2021 , 125, 20143-20156	1
343	Digital immunoassay for biomarker concentration quantification using solid-state nanopores. 2021 , 12, 5348	10
342	Feeding nano particles of vitamin C and zinc oxide: effect on growth performance, immune response, intestinal morphology and blood constituents in heat stressed broiler chickens. 2021 , 104719	0
341	Polystyrene Microspheres Decorated with Au ₄ Cu ₅ Nanoclusters and their Application in Catalytic Reduction of 4-Nitrophenol. 2021 , 6, 8843-8847	0
340	Spherical nucleic acids: Organized nucleotide aggregates as versatile nanomedicine.. 2022 , 3, e120	1
339	Colorimetric response of lysine-capped gold/silver alloy nanocomposites for mercury(II) ion detection. 2021 , 205, 111846	6
338	Synthesis of different morphologies of metal and metal oxide nanoparticles and investigation of their catalytic properties by optical methods. 2021 , 1244, 130943	2
337	Near-infrared II emissive metal clusters: From atom physics to biomedicine. 2021 , 448, 214184	8
336	Magnetic properties-based biosensors for early detection of cancer. 2022 , 165-178	3
335	A fluorometric sandwich biosensor based on rationally imprinted magnetic particles and aptamer modified carbon dots for the detection of tropomyosin in seafood products. 2022 , 132, 108552	3
334	Nanotheranostic Application of Fluorescent Protein-Gold Nanocluster Hybrid Materials: A Mini-review. 2021 , 5, 461-471	1
333	Multiplexed patterning of hybrid lipid membrane and protein arrays for cell signaling study. 2021 , 21, 2711-2720	1
332	Nanomaterial-Enabled Sensors and Therapeutic Platforms for Reactive Organophosphates. 2021 , 11,	5

331	Plasmonic Nanoparticles: Basics to Applications (I). 2021 , 1309, 133-159	1
330	Detection of cell-surface sialic acids and photodynamic eradication of cancer cells using dye-modified polydopamine-coated gold nanobipyramids. 2021 , 9, 5780-5784	0
329	Nanostructured Materials: Bioengineering Platforms for Sensing Nucleic Acids. 2021 ,	0
328	Electroanalytical application of quantum dots in microchips. 2021 , 379-393	
327	Magic-sized CdSe nanoclusters: a review on synthesis, properties and white light potential. 2021 , 2, 1204-1228	12
326	Biomarker sensing platforms based on fluorescent metal nanoclusters. 2021 , 3, 1331-1341	6
325	Supramolecular Hybrid Materials Integrating Functionality with Sensing. 369-405	0
324	Signal Generation with Gold Nanoparticles: Photophysical Properties for Sensor and Imaging Applications. 319-349	6
323	Structures and Functions of Nucleic Acids Modified with S, Se, and Te and Complexed with Small Molecules. 101-141	5
322	Impedimetric DNA Sensing Employing Nanomaterials. 279-301	1
321	DNA-Mediated Assembly of Metal Nanoparticles: Fabrication, Structural Features, and Electrical Properties. 2009 , 11-41	3
320	The Use of Functional Nucleic Acids in Solid-Phase Fluorimetric Assays. 2009 , 309-342	1
319	Main Concepts of Chemical and Biological Sensing. 2009 , 25-60	1
318	Assessment of Toxicity of Nanoparticles Using Insects as Biological Models. 2020 , 2118, 269-279	1
317	Fabrication and applications of glyconanomaterials. 2011 , 705, 727-55	1
316	Magnetic Nanoparticles for Biomedical Applications: From Diagnosis to Treatment to Regeneration. 2014 , 567-583	7
315	Closed-Shell Metal Clusters. 2013 , 81-103	2
314	Nanostability. 2014 , 57-95	6

313	Spatial Control of Biological Ligands on Surfaces Applied to T Cell Activation. 2017 , 1584, 307-331	3
312	Nanotechnology: moving from microarrays toward nanoarrays. 2007 , 381, 411-36	19
311	Periodic assembly of nanospecies on repetitive DNA sequences generated on gold nanoparticles by rolling circle amplification. 2008 , 474, 79-90	9
310	Piezoelectric-excited millimeter-sized cantilever biosensors. 2009 , 504, 73-82	1
309	Electrochemical detection of DNA hybridization using micro and nanoparticles. 2009 , 504, 127-43	7
308	Förster resonance energy transfer methods for quantification of protein-protein interactions on microarrays. 2011 , 723, 303-20	15
307	Biomedical nanotechnology. 2011 , 726, 1-13	4
306	Multiplexed detection of oligonucleotides with biobarcode gold nanoparticle probes. 2011 , 726, 17-31	3
305	Synthesizing and modifying peptides for chemoselective ligation and assembly into quantum dot-peptide bioconjugates. 2013 , 1025, 47-73	26
304	Amino acid mediated linear assembly of Au nanomaterials. 2013 , 1026, 149-61	1
303	Nanotechnology and Plant Disease Diagnosis and Management. 2020 , 101-123	4
302	Mechanochemical Sensing. 2015 , 241-258	2
301	Bismuth-Based Nanoparticles for CT Imaging. 2017 , 429-444	1
300	Fundamentals of Infrared and Raman Spectroscopy, SERS, and Theoretical Simulations. 2008 , 9-35	3
299	Nanoparticle Dispersions. 2013 , 729-776	1
298	Functional DNA-Integrated Nanomaterials for Biosensing. 2013 , 277-305	5
297	Technology for Biotechnology. 2011 , 61-73	1
296	Quantitative Analysis of Disease Biomarkers Using Surface-Enhanced Raman Scattering Spectroscopy. 2014 , 401-417	1

295	Biomedical Applications of Zinc Oxide Nanoparticles Synthesized Using Eco-friendly Method. 2020 , 65-93	4
294	Gold nanoparticles: An advanced drug delivery and diagnostic tool. 2020 , 609-669	3
293	Sensitive detection of streptomycin in milk using a hybrid signal enhancement strategy of MOF-based bio-bar code and target recycling. 2020 , 1125, 1-7	15
292	Room temperature preparation of fluorescent starch nanoparticles from starch-dopamine conjugates and their biological applications. 2018 , 82, 204-209	20
291	Acoustic Methodology for Selecting Highly Dissipative Probes for Ultrasensitive DNA Detection. 2020 , 92, 8186-8193	15
290	Programming Cirligase Catalysis for DNA Rings and Topologies. 2021 , 93, 1801-1810	3
289	CHAPTER 4:Functional Materials Based on Metal-Containing Polymers. 2015 , 87-119	7
288	Chapter 2:Chemical and Biological Sensing Using Gold Nanoparticles. 2008 , 29-59	0
287	Geometry-tailored freestanding epitaxial Pd, AuPd, and Au nanoplates driven by surface interactions. 2020 , 12, 6537-6544	3
286	Cluster-mining: an approach for determining core structures of metallic nanoparticles from atomic pair distribution function data. 2020 , 76, 24-31	17
285	Nanotechnology Applications for Infectious Diseases. 2013 , 1-84	2
284	Shape- and size-controlled synthesis of noble metal nanoparticles. 2014 , 3, 199-216	6
283	Nanoparticles in Medicine: Applications and Hope. 2019 , 16, 565-568	2
282	Chiral plasmonic nanocrescents: large-area fabrication and optical properties. 2018 , 26, 27101-27108	15
281	Optically-based Molecularly Imprinted Polymers Sensors. 2017 ,	1
280	Rapid nanoparticle-mediated monitoring of bacterial metabolic activity and assessment of antimicrobial susceptibility in blood with magnetic relaxation. 2008 , 3, e3253	39
279	Electrostatic-assembly-driven formation of supramolecular rhombus microparticles and their application for fluorescent nucleic acid detection. 2011 , 6, e18958	18
278	Rapid and sensitive detection of an intracellular pathogen in human peripheral leukocytes with hybridizing magnetic relaxation nanosensors. 2012 , 7, e35326	18

277	Adsorption of cellular proteins to polyelectrolyte-functionalized gold nanorods: a mechanism for nanoparticle regulation of cell phenotype?. 2014 , 9, e86670	27
276	Cationic surfactant-based colorimetric detection of Plasmodium lactate dehydrogenase, a biomarker for malaria, using the specific DNA aptamer. 2014 , 9, e100847	27
275	Integral Equations in the General Theory of Light Absorption and Scattering. 2017 , 62, 705-716	1
274	Nanocarriers for tracking and treating diseases. 2013 , 20, 3500-14	25
273	Progress and Prospects in Translating Nanobiotechnology in Medical Theranostics. 2020 , 16, 685-707	7
272	Antimicrobial Mechanisms and Effectiveness of Graphene and Graphene-Functionalized Biomaterials. A Scope Review. 2020 , 8, 465	72
271	Uses of Dendrimers for DNA Microarrays. 2006 , 6, 901-914	46
270	Magnetic Nanosystems as a Therapeutic Tool to Combat Pathogenic Fungi. 2020 , 10, 512-523	5
269	Nanotechnological Approaches for the Detection of Mycobacteria with Special References to Mycobacterium avium Subspecies Paratuberculosis (MAP). 2015 , 10, 518-526	2
268	Nanotechnology, Metal Nanoparticles, and Biomedical Applications of Nanotechnology. 2017 , 311-341	1
267	Biomedical Applications of Gold Nanoparticles. 2018 , 837-858	2
266	Nanoparticle Electromagnetic Properties for Sensing Applications. 2012 , 01, 9-14	10
265	Conical Nanoparticles for Blood Disease Detection. 2013 , 02, 259-265	13
264	Technology and Applications of Microbial Biosensor. 2013 , 02, 83-93	31
263	Organic-Free Au-Pd Alloys on Germanium Substrate via Spontaneous Galvanic Displacement Reaction. 2009 , 30, 3113-3116	7
262	Alkyl Phosphate Functionalized Gold Nanoparticles-Based Colorimetric Probe for Pb ²⁺ ions. 2010 , 31, 3806-3808	12
261	A Facile Synthetic Method of Silver Nanoparticles with a Continuous Size Range from sub-10 nm to 40 nm. 2011 , 32, 117-121	4
260	Adenosine Triphosphate (ATP)-Stabilized Gold Nanoparticle Based-colorimetric Acetylcholinesterase Assay Method with High Signal/Noise Ratio in End-point Analysis. 2011 , 32, 329-331	1

259	The Characteristic Self-assembly of Gold Nanoparticles over Indium Tin Oxide (ITO) Substrate. 2011 , 32, 1133-1137	1
258	Synthesis of Silver Nanoparticles from the Decomposition of Silver(I) [bis(alkylthio)methylene]malonate Complexes. 2012 , 33, 60-64	9
257	Avidin Induced Silver Aggregation for SERS-based Bioassay. 2012 , 33, 3681-3685	4
256	A Gold Nanoparticles-Based Colorimetric Assay for DNA-Binding Molecules Using Non-Cross-Linking Aggregation. 2012 , 33, 1341-1344	2
255	Nanoparticles Supported-Methylene Blue Labels and Multiwall Carbon Nanotubes-Based Highly Sensitive Electrochemical Immunosensor. 2014 , 35, 2193-2196	1
254	Synthesis of High Aspect-Ratio Gold Nanowires with Highly Porous Morphology. 2012 , 2012, 1-9	13
253	A Study on the Plasmonic Properties of Silver Core Gold Shell Nanoparticles: Optical Assessment of the Particle Structure. 2011 , 50, 065004	5
252	Recent advances in the exonuclease III-assisted target signal amplification strategy for nucleic acid detection. 2021 , 13, 5103-5119	0
251	A new colorimetric assay for sensitive detection of glucose-6-phosphate dehydrogenase deficiency based on silver nanoparticles. 2021 , 33,	1
250	Introducing DNA Nanosensor to Undergraduate Students: Rapid Non-Cross-Linking Aggregation of DNA-Functionalized Gold Nanoparticles for Colorimetric DNA Assay.	3
249	Methods of phosphor synthesis and related technology. 2006 ,	
248	DNA-Based Assembly of Metal Nanoparticles: Structure and Functionality. 2007 , 263-282	1
247	Nanogold in Cancer Therapy and Diagnosis.	
246	Introduction. 2008 , 1-8	
245	Optical Tools. 2009 , 253-373	
244	Diffusion Linked Solidification Model of Axisymmetric Growth of Gold Nanorods. 2009 , 199-210	
243	Fabrication and Assembly of Nanomaterials and Nanostructures for Biological Detections. 2009 , 76-95	
242	Biosensors for the Genomic Age. 2009 , 590-598	

- 241 Conducting Polymer Nanowires Technique for High-Sensitivity miRNA Expression Analysis. **2010**, 207-215
- 240 Nanocrystals [Nanowires [Nanolayers. **2010**, 169-207
- 239 10.1007/s12201-008-1009-2. **2010**,
- 238 Scrutiny on significant factors of hemin catalyzed Ag nanoparticle as biosensor for RNA. **2010**, 13, 348-51
- 237 Nucleic Acid-Templated Chemistry. 73-101
- 236 Appendix 1. 701-706
- 235 BiomoleculeNanoparticle Hybrid Systems. 139
- 234 The Nature of Nanotechnology. 3
- 233 Analytical potential of gold nanoparticles in functional aptamer-based biosensors. **2013**, 85-106
- 232 Scanning Probe Microscopy as a Tool for the Fabrication of Structured Surfaces. 49
- 231 Metallic Nanoparticles: Biological Perspective. **2011**, 285-298
- 230 Polymer Encapsulation of Metallic and Semiconductor Nanoparticles: Multifunctional Materials with Novel Optical, Electronic and Magnetic Properties. 2409-2449
- 229 Nanomaterial-Based Long-Range Optical Ruler for Monitoring Biomolecular Activities. **2012**, 159-183
- 228 Two-Dimensional Arrays of Gold Nanoparticles for Plasmonic Nanosensor. **2011**, 21, 525-531
- 227 Introduction to Simulations in Nanobiotechnology. **2011**, 1-40
- 226 Functional Supramolecular Hybrid Materials.
- 225 Introduction. **2012**, 1-11
- 224 Nanoparticle-Based Immunoassays and their Applications in Nervous System Biomarker Detection. **2012**, 17-37

- 223 Some Amazing Properties of Nanomaterials and of their Assembly into Networks. 81-116
- 222 DNA-Functionalized Gold Nanoparticles for Metabolite and Nucleic Acid Detection. **2013**, 121-139
- 221 Bioactive Rosette Nanotubes for Bone Tissue Engineering and Drug Delivery. 313-357
- 220 Localized Surface Plasmon Resonance Spectroscopy with Applications to Chemistry. **2013**, 179-214
- 219 DNA as Nanostructuring Element for Design of Functional Devices. **2014**, 85-121
- 218 CHAPTER 4:Nanoparticle Technologies in Detection Science. **2014**, 116-141
- 217 Introduction. **2014**, 1-18
- 216 Brief Introduction to Localized Surface Plasmon Resonance and Correlative Devices. **2014**, 3-9
- 215 Aptamer-Functionalized Nanomaterials for Biological and Biomedical Applications. **2014**, 1159-1175
- 214 Properties of DNA-Capped Nanoparticles. **2014**, 1227-1262
- 213 Synthesis of a smart nanovehicle for targeting liver. **2014**, 1141, 211-32
- 212 Nanotechnology toward Advancing Personalized Medicine. **2014**, 1-57
- 211 Differentiation between Viral and Bacterial Respiratory Infections Using Chemiluminescence of Polymorphonuclear Leukocytes. **2014**, 287-322
- 210 Device Architecture and Biosensing Applications for Attractive One- and Two-Dimensional Nanostructures. **2015**, 41-70
- 209 Nanotechnology, Metal Nanoparticles, and Biomedical Applications of Nanotechnology. **2015**, 116-155
- 208 Using Cell-Specific Aptamer-Nanomaterial Conjugates for Cancer Cell Detection. **2015**, 215-237
- 207 Nanotechnology for the Management of Respiratory Disease. **2015**, 192-204
- 206 Plasmon ruler based on Fano resonance of a simple trimer nanostructures. **2015**,

205 Noble Metal Nanomaterials. **2015**, 101-113

204 Dual-LSPR based Optical-Fiber Sensor Platform for Multiplexed Biosensing Application. **2016**,

203 Discussion of the Applications and Progress of POCT and Thioredoxin Reductase Activity Testing (TrxR) in the Field of Oncology. **2016**, 06, 25-34

202 Self-Repairing Photoelectrochemical Complexes Based on Nanoscale Synthetic and Biological Components. **2016**, 3622-3631

201 The Impact of Nanotechnology on Environment. **2017**, 153-193

200 Nanotechnology, Metal Nanoparticles, and Biomedical Applications of Nanotechnology. **2017**, 791-821

199 Biomedical Applications of Gold Nanoparticles. **2017**, 74-101

o

198 Post-Functionalization of Room-Temperature Ferromagnetic Nanoparticle via Surface Modification. **2017**, 38, 30-34

197 The Impact of Nanotechnology on Environment. **2017**, 1659-1689

196 Chapter 1 Two-Electrode Platforms for Protein Biosensing Based on Charge Transport through the DNA Double Helix. **2017**, 1-26

195 3D plasmonic nanoarchitectures for extreme light concentration. **2017**,

194 Nanotechnology for the Management of Respiratory Disease. **2018**, 927-940

193 Peculiarities of structural organization and antimicrobial activity of nanocomposites of pectin-Ag⁰/polyethyleneimine, obtained by chemical and thermochemical reduction of silver ions. **2018**, 40, 31-35

2

192 Highly Sensitive Colorimetric Sensing of Mercury (II) Ions by Green Synthesized Gold Nanoparticles. **2018**, 16,

191 A simulation study of plasmonic resonance in nanosandwich structures of noble metals in optical range. **2018**,

190 Laser-induced angular momentum of spheroidal metal nanoparticle in a medium. **2018**, 35, 2851

189 Concatenated silicon etalon tunable filter for hyperspectral imaging in the near infrared. **2018**, 57, 1

188 Robust Antibacterial Activity of Tungsten Oxide (WO₃-X) Nanodots.

o

- 187 Aflatoxin and Ochratoxin A Detection: Traditional and Current Methods. **2019**, 377-404
- 186 Novel approach to sub-5-nm patterning platforms: the self-assembly of metal conjugated bio-inspired molecules. **2019**,
- 185 Nanorobots or Antitumor Nanotanks: The New Cancer Termination Strategies from Reality to Meth. **2019**, 16, 533-535
- 184 Application of Gold Nanostructures in Biomedicine. 1-44
- 183 Nanobiotechnological Applications for Crop Improvement. **2020**, 615-641
- 182 Construction of specific primers for identification of *Leuconostoc mesenteroides* subspecies. **2020**, 58, 244-256
- 181 Protein Nanoparticle Interactions and Factors Influencing These Interactions. **2021**, 187-223
- 180 Green Synthesis of Copper and Copper-Based Nanoparticles for Their Use in Medicine. **2021**, 174-194 0
- 179 Microfluidic and Nanomaterial Approach for Virology. **2022**, 411-431
- 178 Stimuli-Responsive Zinc (II) Coordination Polymers: A Novel Platform for Supramolecular Chromic Smart Tools. **2021**, 13, 3
- 177 Bionanotechnology in Biotechnology. **2020**, 171-197
- 176 Photobiologically Directed Assembly of Gold Nanoparticles. **2021**, 5, e2000179 1
- 175 Role of Olive leaves Zinc Oxide Nanoparticles in Alleviating The Molecular and Histological Changes of Kidney in Female Goats-Induced by Gentamicin (Part III). **2020**, 44, 14-20
- 174 Micromixer: An Effective Tool for the Production of Sub-Nanosized Noble Metal Particles. **2020**, 19, 2050013
- 173  **2020**, 14, 91-99
- 172 Synthesis and Characterization of Nano-Acetamidridew Plant Safeguard Nanomaterial. **2020**, 11, 197-204 0
- 171 A Novel Method for the Formation of Silver-Containing NanocompositesThermochemical Reduction of Ag+ Ions in Polymer Films. **2020**, 187-193
- 170 Plasmonic Hybrid Nanocomposites for Plasmon-Enhanced Fluorescence and Their Biomedical Applications. **2020**, 459-488 2

- 169 Investigation on Trifolium Prantese Capped ZnO Nanoparticles for Cancer Applications. **2020**, 9, 24-29
- 168 Rhesus Blood Typing within a Few Seconds by Packing-Enhanced Nanoscattering on Individual Erythrocytes. **2021**, 93, 15142-15149 1
- 167 Soft chemistry of pure silver as unique plasmonic metal of the Periodic Table of Elements. **2020**, 92, 1007-1028o
- 166 Adding Functionality to DNA Arrays: the Development of Semisynthetic DNA-Protein Conjugates. **2006**, 261-276
- 165 DNA-Functionalized Gold Nanoparticles for Metabolite and Nucleic Acid Detection. **2013**, 121-139 0
- 164 Nanobiomaterials: Stem Cell Interaction and Role in Tissue Engineering. 1
- 163 Phytochemical Mediated Sol-Gel Synthesis, Crystallographic Structure, Morphology and Optical Investigations on ZnO Nanoparticles. **2021**, 32, 1253-1260 0
- 162 Visualizing the cytosolic delivery of bioconjugated QDs into T cell lymphocytes.
- 161 Microfluidic and Nanomaterial Approach for Virology. **2021**, 1-22
- 160 Facile Synthesis of Large Wrinkled Gold Nanoparticles Using Anthracene-Terminated Tripodal Amine Ligand and their Catalytic Efficiency. **2020**, 2020, 4516-4522
- 159 Externally modulated theranostic nanoparticles. **2013**, 2, 292-308 16
- 158 Messenger RNA Detection in Leukemia Cell lines by Novel Metal-Tagged in situ Hybridization using Inductively Coupled Plasma Mass Spectrometry. **2006**, 1, 1-9 12
- 157 Development of immunoassays using interferometric real-time registration of their kinetics. **2014**, 6, 85-95 3
- 156 Nanomedicine for respiratory diseases. **2012**, 11, 18-22 14
- 155 Sequence-dependent twist-bend coupling in DNA minicircles. **2021**, 1
- 154 Rapid synthesis of amphiphilic europium complexes via ultrasonic treatment-assisted crosslinking reaction. **2022**, 197, 109950 0
- 153 Size effects of mechanical properties of nanohoneycomb with multiple surface orientations. **2022**, 165, 104178 0
- 152 Nanotechnology as a Novel Approach in Combating Microbes Providing an Alternative to Antibiotics.. **2021**, 10, 10

151	Smartphone-Based Colorimetric Detection of Chromium (VI) by Maleic Acid-Functionalized Gold Nanoparticles. 2021 , 11, 10894	1
150	Wound healing properties of green (using Lawsonia inermis leaf extract) and chemically synthesized ZnO nanoparticles in albino rats. 2021 , 1	2
149	Green synthesis of zinc oxide nanoparticles using , and their biomedical applications.. 2022 , 29, 2270-2279	2
148	Mechanistic Study of Seed-Mediated Growth of Gold Rhombic Dodecahedra.	
147	Multi-NSAID-based Zn(II) coordination complex-derived metallogelators/metallogels as plausible multi-drug self-delivery systems.. 2021 ,	0
146	Synthesis of Silver Nanoparticles with Long-term storability for SERS Applications Using Aqueous Extracts of Rice Bran: A Rapid and Green Photochemical Approach. 2022 , 1254, 132338	1
145	Development of gold nanoparticle-based visual assay for rapid detection of Escherichia coli specific DNA in milk of cows affected with mastitis. 2022 , 155, 112901	0
144	Nanotechnology Fundamentals Applied to Clinical Infectious Diseases and Public Health.. 2021 , 8, ofab583	0
143	One-Pot Preparation of Metal-Polymer Nanocomposites in Irradiated Aqueous Solutions of 1-Vinyl-1,2,4-triazole and Silver Ions. 2021 , 13,	3
142	Synthesis of antibacterial polymer metal hybrids in irradiated poly-1-vinyl-1,2,4-triazole complexes with silver ions: pH tuning of nanoparticle sizes.	3
141	Long-term Cryopreservation of Ready-to-Use DNA-Modified Gold Nanoparticle Derivatives: Effect of Preservation Temperature on Their DNA Dissociation and Functional Stability.	0
140	Attributes of functionalized nanomaterial-based electrochemical sensors for food and beverage analysis. 2022 , 177-206	
139	Enhanced suppression of soil borne phytopathogenic bacteria Ralstonia solanacearum in soil and promotion of tomato plant growth by synergetic effect of green synthesized nanoparticles and plant extract.. 2022 ,	0
138	Size-Tunable NiCu CoreShell NanoparticlesStructure, Composition, and Catalytic Activity for the Reverse WaterGas Shift Reaction. 2101308	
137	Stimuli-responsive DNA-based hydrogels for biosensing applications.. 2022 , 20, 40	3
136	Molecular Probes, Chemosensors, and Nanosensors for Optical Detection of Biorelevant Molecules and Ions in Aqueous Media and Biofluids.. <i>Chemical Reviews</i> , 2022 ,	68.1 17
135	Development of an enhanced immunoassay based on protein nanoparticles displaying an IgG-binding domain and luciferase.. 2022 , 414, 2079	0
134	BaTiO3 Nanocubes Functionalized by Catechol-Based Organic Molecules via Ligand-Exchange and Chemical Reactions: Implications for Closed Packing of Nanoblocks. 2022 , 5, 1056-1067	

133	Electrochemical sensing of biotin-avidin interaction on gold electrode modified by silver nanoparticles through covalent co-assembling. 2022 , 3, 100159	0
132	Bioconjugated Nanomaterial for Targeted Diagnosis of SARS-CoV-2.	3
131	Plasmonic nanostructure integrated two-dimensional materials for optoelectronic devices.	1
130	Functionalization of biogenic silver nanoparticles with Vitamin B12 for the detection of iron in food samples. 2022 , 100017	1
129	Electron-Transfer Study and Single Nucleotide Discrimination of a DNA Sequence on a Polymer Gold Electrode (PGE) by Differential Pulse Voltammetry (DPV). 1-13	0
128	Plasmon-Modulated Fluorescence Nanoprobes for Fast and Sensitive DNA Detection Via Target Signal Enhancement and Off-Target Quenching.	
127	Pathogen identification through surface marker recognition methods. 2022 , 355-373	
126	Optimization of silver nanoparticles synthesis for colorimetric sensing. 2022 ,	
125	Thioglycolic acid-modified AuNPs as a colorimetric sensor for the rapid determination of the pesticide chlorpyrifos.. 2022 ,	0
124	Nanoscale Biocompatible Structures Generated from Fluorinated Tripodal Phenyls on Gold Nanoprisms.. 2022 , 11, e202200007	1
123	Signal Transduction Strategies for Analyte Detection using DNA-Based Nanostructures.. 2022 ,	4
122	Plasmonic Nanostructure Engineering with Shadow Growth.. 2022 , e2107917	0
121	Opportunities for Mercuric Ion Spectrophotometric Determination based on Reduction of Gold Nanoparticles Aggregation by N-containing Cyclic Molecules. 2022 , 77, 295-300	
120	Signal Transduction Strategies for Analyte Detection using DNA-Based Nanostructures.	
119	Temperature-dependent chloride-mediated access to atom-precise silver thiolate nanoclusters. 1	0
118	Nanomaterial based analytical methods for breast cancer biomarker detection. 2022 , 14, 100219	2
117	Highly sensitive label-free multi-signal sensing platform for Kras gene detection by exonuclease assisted target recycling amplification based on AIZS QDs. 2022 , 362, 131686	0
116	-Heterocyclic Carbene Ligand Stability on Gold Nanoparticles in Biological Media.. 2022 , 7, 1444-1451	1

- 115 DNA-Chitosan Aerogels and Regenerated Hydrogels with Extraordinary Mechanical Properties. **2022**, 4, 663-671 ○
- 114 Determination of Interfacial Tension of Nanomaterials and the Effect of Particle Size on Interfacial Tension. **2021**, ○
- 113 Synthesis and Characterization of Zinc Oxide Nanoparticles Using Acacia caesia Bark Extract and Its Photocatalytic and Antimicrobial Activities. **2021**, 11, 1507 ○
- 112 In Situ Assembly of Nanomaterials and Molecules for the Signal Enhancement of Electrochemical Biosensors.. **2021**, 11, ○
- 111 Colorimetric Sensors Based on Nanomaterials for Various Analytes Detection. **2021**, ○
- 110 Selective Enhancement of Surface and Bulk E-Field within Porous AuRh and AuRu Nanorods.. **2021**, 125, 27661-27670 ○
- 109 Gold nanoparticle-DNA aptamer-assisted delivery of antimicrobial peptide effectively inhibits Acinetobacter baumannii infection in mice.. **2022**, 60, 128-136 ○
- 108 Data_Sheet_1.pdf. **2020**, ○
- 107 Table1.DOCX. **2018**, ○
- 106 Data_Sheet_1.pdf. **2019**, ○
- 105 Improving the functionality of a nanomaterial by biological probes. **2022**, 379-418 ○
- 104 Shape, thermodynamics and kinetics of nanoparticles. **2022**, ○
- 103 Sugar based cationic magnetic core-shell silica nanoparticles for nucleic acid extraction.. **2022**, 12, 13566-13579 ○
- 102 Femtosecond Z-scan measurement of third-order nonlinear optical response of fluorine-doped tin oxide. 1
- 101 Trithiocarbonate-mediated RAFT synthesis of a block copolymer: Silver nanoparticles integration and sensitive recognition of Hg²⁺. 1
- 100 A panoptic review of techniques for finfish disease diagnosis: The status quo and future perspectives.. **2022**, 196, 106477 ○
- 99 Magnetic Enrichment of Immuno-Specific Extracellular Vesicles for Mass Spectrometry Using Biofilm-Derived Iron Oxide Nanowires. ○
- 98 Nanotechnology Approaches for Rapid Detection and Theranostics of Antimicrobial Resistant Bacterial Infections.. **2022**, ○

- 97 Climate-Resilient Microbial Biotechnology: A Perspective on Sustainable Agriculture. **2022**, 14, 5574 0
- 96 Prospecting Cellular Gold Nanoparticle Biomineralization as a Viable Alternative to Prefabricated Gold Nanoparticles.. **2022**, e2105957 1
- 95 Surface fabrication of magnetic core-shell silica nanoparticles with perylene diimide as a fluorescent dye for nucleic acid visualization. **2022**, 359, 119345 1
- 94 Tunable narrow-linewidth surface plasmon resonances of graphene-wrapped dielectric nanoparticles in the visible and near-infrared. **2022**, 115300 0
- 93 Recent Advances in Enhancing Antibacterial Property by Nanoparticles. 43-52
- 92 Easy synthesis of 4-quinonimine functionalized gold nanoparticles in stable aqueous colloidal state. 1-7 0
- 91 Design of highly perceptible dual-resonance all-dielectric metasurface colorimetric sensor via deep neural networks. **2022**, 12, 0
- 90 Green Synthesized Zinc-Based Nanocomposites for Environmental Remediation. 141-163 0
- 89 Determination of the Highly Sensitive Carboxyl-Graphene Oxide-Based Planar Optical Waveguide Localized Surface Plasmon Resonance Biosensor. **2022**, 12, 2146 0
- 88 Nucleic Acids Detection for Mycobacterium tuberculosis Based on Gold Nanoparticles Counting and Rolling-Circle Amplification. **2022**, 12, 448 0
- 87 Hybrid Nanocomposites of Plasmonic Metal Nanostructures and 2D Nanomaterials for Improved Colorimetric Detection. **2022**, 10, 237 0
- 86 Ab-initio simulation of the interaction of gold nanoclusters with glycine. **2022**, 1266, 133447 0
- 85 Metal oxide nanostructures and their biological applications (nonlinear photonics, plasmonic nanostructures, etc.). **2022**, 397-432
- 84 Nanoparticle-based immunoassays for early and rapid detection of HIV and other viral infections. **2022**, 173-193
- 83 Atomically Precise Au₄₂ Nanorods with Longitudinal Excitons for an Intense Photothermal Effect. **2022**, 144, 12381-12389 5
- 82 Advances in Nanotechnology as a Potential Alternative for Plant Viral Disease Management. 13, 1
- 81 Rapid Detection of Neisseria gonorrhoeae Genomic DNA Using Gold Nanoprobes Which Target the Gonococcal DNA Uptake Sequence. 12,
- 80 Biointerface Engineering with Nucleic Acid Materials for Biosensing Applications. 2201069 2

- 79 Nanotechnology-Based Theranostics for Fighting Infectious Diseases. **2022**, 329-418
- 78 Diagnostic and Therapeutic Systems Using Nanomaterials. **2022**, 1-56
- 77 Progress in Antiviral Fullerene Research. **2022**, 12, 2547 0
- 76 Co-delivery of Bcl-2 siRNA and doxorubicin through gold nanoparticle-based delivery system for a combined cancer therapy approach. **2022**, 103603 1
- 75 COVID-19 Detection via Silicon Nanowire Field-Effect Transistor: Setup and Modeling of Its Function. **2022**, 12, 2638 1
- 74 Mechanism for selective binding of aromatic compounds on oxygen-rich graphene nanosheets based on molecule size/polarity matching. **2022**, 8, 0
- 73 Biomaterials and advanced technologies for the evaluation and treatment of ovarian aging. **2022**, 20, 2
- 72 A simple green synthesis of pure and sterling silver nanoparticles via pulsed laser ablation in deionized water: characterization and comparison.
- 71 Performance evaluation of nano slag incorporating in concrete. **2022**,
- 70 Fermentation Process Versus Nanotechnology. **2022**, 115-175
- 69 Bridging 1D Inorganic and Organic Synthesis to Fabricate Ultrathin Bismuth-Based Nanotubes with Controllable Size as Anode Materials for Secondary Li Batteries. 2204236
- 68 A review of synthesis, fabrication, and emerging biomedical applications of metal-organic frameworks. **2022**, 140, 213049 0
- 67 Thioflavine T-induced charge neutralization assembly of AuNPs for colorimetric sensing of thallium. **2022**, 370, 132437 0
- 66 Biomolecules adsorption to trigger the self-assembly of nanospheres and nanorods. **2022**, 654, 130181 0
- 65 Switchable and dynamic G-quadruplexes and their applications. **2022**, 51, 7631-7661 4
- 64 Recent advances on gold and silver nanoparticle-based colorimetric strategies for the detection of different substances and SARS-CoV-2: a comprehensive review. 1
- 63 DNA-mediated dynamic plasmonic nanostructures: assembly, actuation, optical properties, and biological applications. 0
- 62 Designing coordination polymers as multi-drug-self-delivery systems for tuberculosis and cancer therapy: in vitro viability and in vivo toxicity assessment. 0

61	Chemical ordering and temperature effects on the thermal conductivity of Ag ₃ Au and Ag ₃ Bi bimetallic bulk and nanocluster systems.	0
60	Colorimetric and naked-eye detection of arsenic(iii) using a paper-based microfluidic device decorated with silver nanoparticles. 2022 , 12, 21836-21850	1
59	On the Dynamics of Interacting Agents on an Ising Lattice. 2022 ,	0
58	Enhancing CRISPR-Cas-Mediated Detection of Nucleic Acid and Non-nucleic Acid Targets Using Enzyme-Labeled Reporters. 2022 , 144, 16310-16315	6
57	A Simple Colorimetric Assay of Bleomycin-Mediated DNA Cleavage Utilizing Double-Stranded DNA-Modified Gold Nanoparticles.	0
56	Preparation of Biocidal Nanocomposites in X-ray Irradiated Interpolyelectrolyte Complexes of Polyacrylic Acid and Polyethylenimine with Ag-Ions. 2022 , 14, 4417	2
55	Nanocluster-nanoparticle coassemblies. 2023 , 111-128	0
54	Advances in nanotechnology-based strategies for the point-of-care detection of pathogenic fungi. 2023 , 725-754	0
53	Nanosensors for the detections of foodborne pathogens and toxins. 2023 , 183-204	0
52	Peptide-based diagnostic and therapeutic agents: where we are and where we are heading?.	1
51	Magnetic enrichment of immuno-specific extracellular vesicles for mass spectrometry using biofilm-derived iron oxide nanowires.	1
50	Progress in Laser Ablation and Biological Synthesis Processes: Top-Down and Bottom-Up Approaches for the Green Synthesis of Au/Ag Nanoparticles. 2022 , 23, 14658	1
49	Synthesis, Optimization, and Characterization of Fluorescent Particle Preformed Gel. 2022 , 15, 8712	0
48	Fifth international conference on materials and environmental science. 2022 ,	0
47	Nanoscale MOFs as an advanced tool for medical applications: Challenges and recent progress.	2
46	Synthesis and Manipulation of Colloid and Interface Structure and Properties by Exposure to Perfluorocarbon Gases. 1-26	0
45	Design, Synthesis, and Structural Insights of a Series of Zn(II)-SAID Based Coordination Complex Derived Metallogels and Their Plausible Applications in Self Drug Delivery.	0
44	Fluorescent copper conjugated curcumin cysteine nanoprobe for selective determination of Fe ³⁺ and G-quadruplex DNA. 2023 , 190,	0

- 43 Thiolate DNAzymes on Gold Nanoparticles for Isothermal Amplification and Detection of Mesothelioma-derived Exosomal PD-L1 mRNA. ○
- 42 Role of Nanomaterials in Improving Crop Tolerance to Abiotic Stress. **2023**, 423-453 ○
- 41 Metal Oxide Nanoparticles: Synthesis, Properties, Characterization, and Applications. **2023**, 103-144 ○
- 40 Nanotechnology: a contemporary therapeutic approach in combating infections from multidrug-resistant bacteria. **2023**, 205, ○
- 39 Electrochemical Replication and Transfer for Low-Cost, Sub-100 nm Patterning of Materials on Flexible Substrates. 2210778 ○
- 38 Label-free electrochemical detection of cancer biomarkers DNA and anti-p53 at tin oxide quantum dot-gold-DNA nanoparticle modified electrode. **2023**, 150, 108371 1
- 37 Metallic nanoparticle-based nano-inks for chemical and biological sensing. **2023**, 561-578 ○
- 36 Influence of Nanodiamonds on Enhancement of Fluorescence of Products of the Tryptophan-Phototransformation Reaction in the Presence of Halogenated Carbohydrates. ○
- 35 Microscopic Cascading Devices for Boosting Mucus Penetration in Oral Drug Delivery Micromotors Nesting Inside Microcontainers. 2206330 ○
- 34 Sustainable Nanotechnology: Preparing Nanomaterials from Benign and Naturally Occurring Reagents. **2014**, 259-287 1
- 33 Polyethyleneimine/polyethylene glycol conjugated gold nanoparticles as nanoscale positive/negative controls in nanotoxicology: testing in frog embryo teratogenesis assay Xenopus and mammalian tissue culture system. **2023**, 17, 94-115 ○
- 32 Graphene Oxide-Assisted Aptamer-Based Fluorescent Detection of Tetracycline Antibiotics. **2023**, 5, 789-799 ○
- 31 Ultrasensitive colorimetric detection and determination of Hg(II) using bioinspired AgNPs synthesized from mature *Camellia sinensis* leaves. **2023**, 11, 100411 ○
- 30 Aptamer based biosensor platforms for neurotransmitters analysis. **2023**, 162, 117021 ○
- 29 Evolution of tuberculosis diagnostics: From molecular strategies to nanodiagnostics. **2023**, 140, 102340 ○
- 28 Precise profiling of exosomal biomarkers via programmable curved plasmonic nanoarchitecture-based biosensor for clinical diagnosis of Alzheimer's disease. **2023**, 230, 115269 ○
- 27 Biosynthesis of zinc oxide nanoparticles using *Indigofera tinctoria* and their efficacy against dengue vector, *Aedes aegypti* (Diptera: Culicidae). **2023**, 249, 108513 ○
- 26 *Brassica oleracea* L. (Acephala Group) based zinc oxide nanoparticles and their efficacy as antibacterial agent. 84, ○

- 25 Bio-Assisted Synthesis of Zinc Oxide Nanoparticles from Mimosa pudica Aqueous Leave Extract: Structure and Antibacterial Activity. ○
- 24 Plasmon resonances of graphene-assisted core-shell nanoparticles. **2023**, 98, 035509 ○
- 23 Introduction to metal nanoclusters. Concepts and prospects. **2023**, 1-9 ○
- 22 Topological study on degree based molecular descriptors of fullerene cages. **2023**, 121, 1 ○
- 21 BIOLOGICAL AND PHYSICO-CHEMICAL PROPERTIES OF GOLD AND IRON NANOPARTICLES PRODUCED BY GREEN SYNTHESIS METHOD. **2022**, ○
- 20 Meta-Analysis of Cytotoxicity Studies Using Machine Learning Models on Physical Properties of Plant Extract-Derived Silver Nanoparticles. **2023**, 24, 4220 ○
- 19 Nannorrhops ritchiana Leaf-Based Biomolecular Extract-Mediated Silver Nanoparticles as a Platform for Mercury(II) Sensing, Antimicrobial Activity, and DNA Interaction. ○
- 18 Patterning of Hydrophilic and Hydrophobic Gold and Magnetite Nanoparticles by Dip Pen Nanolithography. 2208069 ○
- 17 A Review on Self-Assembly of Colloidal Nanoparticles into Clusters, Patterns, and Films: Emerging Synthesis Techniques and Applications. 2201536 ○
- 16 Microfluidic-Generated Seeds for Gold Nanotriangle Synthesis in Three or Two Steps. 2204810 ○
- 15 Determining the impact of gold nanoparticles on amyloid aggregation with 2D IR spectroscopy. **2023**, 158, 091101 ○
- 14 Microfluidic-based modulation of triplet exciton decay in organic phosphorescent nanoparticles for size-assisted photodynamic antibacterial therapy. **2023**, 11, 3106-3112 ○
- 13 A simple strategy based on combinatorial gold nanoparticle sizes for enhanced sensitivity in colorimetric bioanalysis. ○
- 12 Learning and Predicting Photonic Responses of Plasmonic Nanoparticle Assemblies via Dual Variational Autoencoders. 2205893 ○
- 11 Dynamic Metal-Phenolic Coordination Complexes for Versatile Surface Nanopatterning. **2023**, 145, 7974-7982 ○
- 10 Ag Nanoclusters. **2023**, 227-256 ○
- 9 Management of infectious disease and biotoxin elimination using nanomaterials. **2023**, 149-174 ○
- 8 Introduction to Atomically Precise Nanochemistry. **2023**, 1-55 ○

- 7 Design and development of CuO-ZnO nanospheres decorated g-C₃N₄ nanocomposite with superior antimicrobial and anticancer activities. ○
- 6 Laboratory Diagnosis of Tuberculosis. **2023**, 89-115 ○
- 5 Green synthesis and characterization of zinc oxide nanoparticles using black currant extracts. **2023**, ○
- 4 Use of lectin-functionalized and lectin-targeted nanoparticles for multiple therapeutic applications. **2023**, 543-566 ○
- 3 Antimicrobial air filter made of chitosan-ZnO nanoparticles immobilized on white silica gel beads. **2023**, 16, 104967 ○
- 2 Single-molecule/particle counting for microRNA detection and imaging. **2023**, 164, 117085 ○
- 1 Gold Nanomaterial-Based Optical Modulators for Wideband Pulse Laser Generation. ○