Murali Sastry

List of Publications by Year
in descending order

273 papers	32,932 citations	7096 78 h-index	3915 177 g-index
276 all docs	276 docs citations	276 times ranked	24127 citing authors

#	Article	IF	Citations
1	Rapid synthesis of Au, Ag, and bimetallic Au coreâ€“Ag shell nanoparticles using Neem (Azadirachta) Tj ETQq1 1 0.784314 rgBT /Over	9.4	2,129
2	Synthesis of Gold Nanotriangles and Silver Nanoparticles Using Aloe vera Plant Extract. Biotechnology Progress, 2006, 22, 577-583.	2.6	1,674
3	Extracellular biosynthesis of silver nanoparticles using the fungus Fusarium oxysporum. Colloids and Surfaces B: Biointerfaces, 2003, 28, 313-318.	5.0	1,505
4	Biocompatibility of Gold Nanoparticles and Their Endocytotic Fate Inside the Cellular Compartment: A Microscopic Overview. Langmuir, 2005, 21, 10644-10654.	3.5	1,479
5	Biological synthesis of triangular gold nanoprisms. Nature Materials, 2004, 3, 482-488.	27.5	1,409
6	Fungus-Mediated Synthesis of Silver Nanoparticles and Their Immobilization in the Mycelial Matrix: A Novel Biological Approach to Nanoparticle Synthesis. Nano Letters, 2001, 1, 515-519.	9.1	1,181
7	Geranium Leaf Assisted Biosynthesis of Silver Nanoparticles. Biotechnology Progress, 2003, 19, 1627-1631.	2.6	935
8	Bioreduction of chloroaurate ions by geranium leaves and its endophytic fungus yields gold nanoparticles of different shapes. Journal of Materials Chemistry, 2003, 13, 1822.	6.7	838
9	Bioreduction of AuCl4â^' Ions by the Fungus, Verticillium sp. and Surface Trapping of the Gold Nanoparticles Formed D.M. and S.S. thank the Council of Scientific and Industrial Research (CSIR), Government of India, for financial assistance.. Angewandte Chemie - International Edition, 2001, 40, 3585.	13.8	768
10	Extracellular Biosynthesis of Monodisperse Gold Nanoparticles by a Novel Extremophilic Actinomycete,Thermomonosporasp.. Langmuir, 2003, 19, 3550-3553.	3.5	684
11	Nanocrystalline TiO2 studied by optical, FTIR and X-ray photoelectron spectroscopy: correlation to presence of surface states. Thin Solid Films, 2000, 358, 122-130.	1.8	663
12	Intracellular synthesis of gold nanoparticles by a novel alkalotolerant actinomycete,Rhodococcusspecies. Nanotechnology, 2003, 14, 824-828.	2.6	618
13	Controlling the Optical Properties of Lemongrass Extract Synthesized Gold Nanotriangles and Potential Application in Infrared-Absorbing Optical Coatings. Chemistry of Materials, 2005, 17, 566-572.	6.7	563
14	Extracellular Synthesis of Gold Nanoparticles by the Fungus Fusarium oxysporum. ChemBioChem, 2002, 3, 461.	2.6	560
15	Biosynthesis of Gold and Silver Nanoparticles Using <I>Emblica Officinalis</I> Fruit Extract, Their Phase Transfer and Transmetallation in an Organic Solution. Journal of Nanoscience and Nanotechnology, 2005, 5, 1665-1671.	0.9	536
16	Chitosan Reduced Gold Nanoparticles as Novel Carriers for Transmucosal Delivery of Insulin. Pharmaceutical Research, 2007, 24, 1415-1426.	3.5	525
17	Pepsinâ^'Gold Colloid Conjugates:â€‰ Preparation, Characterization, and Enzymatic Activity. Langmuir, 2001, 17, 1674-1679.	3.5	514
18	Enzyme Mediated Extracellular Synthesis of CdS Nanoparticles by the Fungus,Fusarium oxysporum. Journal of the American Chemical Society, 2002, 124, 12108-12109.	13.7	509

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19	Investigation into the Interaction between Surface-Bound Alkylamines and Gold Nanoparticles. Langmuir, 2003, 19, 6277-6282.	3.5	469
20	Extracellular Biosynthesis of Bimetallic Au-Ag Alloy Nanoparticles. Small, 2005, 1, 517-520.	10.0	417
21	Gold Nanotriangles Biologically Synthesized using Tamarind Leaf Extract and Potential Application in Vapor Sensing. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2005, 35, 19-26.	0.6	412
22	Role of Halide Ions and Temperature on the Morphology of Biologically Synthesized Gold Nanotriangles. Langmuir, 2006, 22, 736-741.	3.5	393
23	Extracellular Biosynthesis of Magnetite using Fungi. Small, 2006, 2, 135-141.	10.0	389
24	Biosynthesis of zirconia nanoparticles using the fungus Fusarium oxysporum. Journal of Materials Chemistry, 2004, 14, 3303.	6.7	375
25	Fungus-mediated biosynthesis of silica and titania particles. Journal of Materials Chemistry, 2005, 15, 2583.	6.7	354
26	Pt and Pd Nanoparticles Immobilized on Amine-Functionalized Zeolite: Excellent Catalysts for Hydrogenation and Heck Reactions. Chemistry of Materials, 2004, 16, 3714-3724.	6.7	351
27	Synthesis of Aqueous Au Coreâ^'Ag Shell Nanoparticles Using Tyrosine as a pH-Dependent Reducing Agent and Assembling Phase-Transferred Silver Nanoparticles at the Airâ^'Water Interface. Langmuir, 2004, 20, 7825-7836.	3.5	334
28	Capping of Gold Nanoparticles by the Amino Acid Lysine Renders Them Water-Dispersible. Langmuir, 2003, 19, 3545-3549.	3.5	292
29	Room-Temperature Biosynthesis of Ferroelectric Barium Titanate Nanoparticles. Journal of the American Chemical Society, 2006, 128, 11958-11963.	13.7	285
30	Water-dispersible tryptophan-protected gold nanoparticles prepared by the spontaneous reduction of aqueous chloroaurate ions by the amino acid. Journal of Colloid and Interface Science, 2004, 269, 97-102.	9.4	277
31	Extra-/Intracellular Biosynthesis of Gold Nanoparticles by an Alkalotolerant Fungus, <I>Trichothecium</I> sp.. Journal of Biomedical Nanotechnology, 2005, 1, 47-53.	1.1	273
32	Green luminescence from copper doped zinc sulphide quantum particles. Applied Physics Letters, 1995, 67, 2702-2704.	3.3	266
33	Extracellular Synthesis of Crystalline Silver Nanoparticles and Molecular Evidence of Silver Resistance from Morganella sp.: Towards Understanding Biochemical Synthesis Mechanism. ChemBioChem, 2008, 9, 1415-1422.	2.6	261
34	Keggin Ions as UV-Switchable Reducing Agents in the Synthesis of Au Coreâ^'Ag Shell Nanoparticles. Journal of the American Chemical Society, 2003, 125, 8440-8441.	13.7	230
35	Studies on the Reversible Aggregation of Cysteine-Capped Colloidal Silver Particles Interconnected via Hydrogen Bonds. Langmuir, 2001, 17, 6262-6268.	3.5	220
36	pH Dependent changes in the optical properties of carboxylic acid derivatized silver colloidal particles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1997, 127, 221-228.	4.7	216

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37	Gold Nanoparticles as Carriers for Efficient Transmucosal Insulin Delivery. Langmuir, 2006, 22, 300-305.	3.5	208
38	Interfacing biology with nanoparticles. Current Applied Physics, 2005, 5, 118-127.	2.4	207
39	Electrostatically Controlled Diffusion of Carboxylic Acid Derivatized Silver Colloidal Particles in Thermally Evaporated Fatty Amine Films. Journal of Physical Chemistry B, 1998, 102, 1404-1410.	2.6	195
40	Bacterial Aerobic Synthesis of Nanocrystalline Magnetite. Journal of the American Chemical Society, 2005, 127, 9326-9327.	13.7	190
41	Electrostatic Assembly of Nanoparticles and Biomacromolecules. Accounts of Chemical Research, 2002, 35, 847-855.	15.6	184
42	Bacteria-Mediated Precursor-Dependent Biosynthesis of Superparamagnetic Iron Oxide and Iron Sulfide Nanoparticles. Langmuir, 2008, 24, 5787-5794.	3.5	184
43	Fungus-Mediated Biotransformation of Amorphous Silica in Rice Husk to Nanocrystalline Silica. Journal of the American Chemical Society, 2006, 128, 14059-14066.	13.7	182
44	Interaction of Different Metal Ions with Carboxylic Acid Group:â€‰ A Quantitative Study. Journal of Physical Chemistry A, 2007, 111, 6183-6190.	2.5	173
45	Direct Assembly of Gold Nanoparticle â€œShellsâ€•on Polyurethane Microsphere â€œCoresâ€•and Their Application as Enzyme Immobilization Templates. Chemistry of Materials, 2003, 15, 1944-1949.	6.7	170
46	Synthesis of gold, silver and their alloy nanoparticles using bovine serum albumin as foaming and stabilizing agent. Journal of Materials Chemistry, 2005, 15, 5115.	6.7	168
47	On the Stability of Carboxylic Acid Derivatized Gold Colloidal Particles:â€‰ The Role of Colloidal Solution pH Studied by Optical Absorption Spectroscopy. Langmuir, 1997, 13, 3944-3947.	3.5	156
48	Phase transfer of silver nanoparticles from aqueous to organic solutions using fatty amine molecules. Journal of Colloid and Interface Science, 2003, 264, 396-401.	9.4	156
49	Linear Superclusters of Colloidal Gold Particles by Electrostatic Assembly on DNA Templates. Advanced Materials, 2001, 13, 341-344.	21.0	150
50	Isothermal Titration Calorimetry Studies on the Binding of Amino Acids to Gold Nanoparticles. Journal of Physical Chemistry B, 2004, 108, 11535-11540.	2.6	146
51	On the Preparation, Characterization, and Enzymatic Activity of Fungal Proteaseâ”Gold Colloid Bioconjugates. Bioconjugate Chemistry, 2001, 12, 684-690.	3.6	133
52	Isothermal Titration Calorimetry Studies on the Binding of DNA Bases and PNA Base Monomers to Gold Nanoparticles. Journal of the American Chemical Society, 2004, 126, 13186-13187.	13.7	130
53	Hollow gold and platinum nanoparticles by a transmetallation reaction in an organic solution. Chemical Communications, 2005, , 1684.	4.1	127
54	Formation of Water-Dispersible Gold Nanoparticles Using a Technique Based on Surface-Bound Interdigitated Bilayers. Langmuir, 2003, 19, 1168-1172.	3.5	124

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55	Evidence for Novel Interdigitated Bilayer Formation of Fatty Acids during Three-Dimensional Self-Assembly on Silver Colloidal Particles. Journal of the American Chemical Society, 1997, 119, 9281-9282.	13.7	120
56	Langmuirâ^'Blodgett Films of Carboxylic Acid Derivatized Silver Colloidal Particles:Â Role of Subphase pH on Degree of Cluster Incorporation. Journal of Physical Chemistry B, 1997, 101, 4954-4958.	2.6	117
57	Role of Particle Size in Individual and Competitive Diffusion of Carboxylic Acid Derivatized Colloidal Gold Particles in Thermally Evaporated Fatty Amine Films. Langmuir, 1999, 15, 8197-8206.	3.5	115
58	Benzene- and Anthracene-Mediated Assembly of Gold Nanoparticles at the Liquidâ^'Liquid Interface. Langmuir, 2002, 18, 6478-6483.	3.5	108
59	Biosynthesis of CaCO3Crystals of Complex Morphology Using a Fungus and an Actinomycete. Journal of the American Chemical Society, 2003, 125, 14656-14657.	13.7	108
60	Characterization and Catalytic Activity of Gold Nanoparticles Synthesized by Autoreduction of Aqueous Chloroaurate Ions with Fumed Silica. Chemistry of Materials, 2002, 14, 1678-1684.	6.7	107
61	Electrostatically Controlled Organization of Carboxylic Acid Derivatized Colloidal Silver Particles on Amine-Terminated Self-Assembled Monolayers. Chemistry of Materials, 2000, 12, 1234-1239.	6.7	104
62	Porous Gold Nanospheres by Controlled Transmetalation Reaction: A Novel Material for Application in Cell Imaging. Chemistry of Materials, 2005, 17, 5000-5005.	6.7	100
63	Adsorption of Silver Colloidal Particles through Covalent Linkage to Self-Assembled Monolayers. Langmuir, 1997, 13, 5244-5248.	3.5	98
64	Synthesis of Gold Nanospheres and Nanotriangles by the Turkevich Approach. Journal of Nanoscience and Nanotechnology, 2005, 5, 1721-1727.	0.9	97
65	Synthesis of a stable gold hydrosol by the reduction of chloroaurate ions by the amino acid, aspartic acid. Journal of Chemical Sciences, 2002, 114, 513-520.	1.5	96
66	Preparation and stabilization of gold nanoparticles formed by in situ reduction of aqueous chloroaurate ions within surface-modified mesoporous silica. Microporous and Mesoporous Materials, 2003, 58, 201-211.	4.4	96
67	Biological Synthesis of Strontium Carbonate Crystals Using the FungusFusarium oxysporum. Langmuir, 2004, 20, 6827-6833.	3.5	96
68	Optical Absorption Study of the Biotinâ^'Avidin Interaction on Colloidal Silver and Gold Particles. Langmuir, 1998, 14, 4138-4142.	3.5	95
69	One-step synthesis of hydrophobized gold nanoparticles of controllable size by the reduction of aqueous chloroaurate ions by hexadecylaniline at the liquidâ€"liquid interface. Chemical Communications, 2002, , 1334-1335.	4.1	92
70	Phase transfer of aqueous colloidal gold particles into organic solutions containing fatty amine molecules. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 181, 255-259.	4.7	91
71	Gold Nanoparticles Assembled on Amine-Functionalized Naâ^'Y Zeolite:Â A Biocompatible Surface for Enzyme Immobilization. Langmuir, 2003, 19, 3858-3863.	3.5	90
72	Phase Transfer of Aqueous Gold Colloidal Particles Capped with Inclusion Complexes of Cyclodextrin and Alkanethiol Molecules into Chloroform. Langmuir, 2001, 17, 3766-3768.	3.5	89

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73	Gold Nanoparticle Networks with Photoresponsive Interparticle Spacings. Langmuir, 2005, 21, 7979-7984.	3.5	87
74	One-Step Synthesis of Ordered Two-Dimensional Assemblies of Silver Nanoparticles by the Spontaneous Reduction of Silver Ions by Pentadecylphenol Langmuir Monolayers. Journal of Physical Chemistry B, 2004, 108, 19269-19275.	2.6	86
75	Lamellar Multilayer Gold Cluster Films Deposited by the Langmuirâ^'Blodgett Technique. Langmuir, 1997, 13, 2575-2577.	3.5	85
76	Palladium clusters on graphite: Evidence of resonant hybrid states in the valence and conduction bands. Physical Review B, 1990, 41, 5685-5695.	3.2	83
77	DNA-mediated electrostatic assembly of gold nanoparticles into linear arrays by a simple drop-coating procedure. Applied Physics Letters, 2001, 78, 2943-2945.	3.3	81
78	Keggin ion-mediated synthesis of aqueous phase-pure Au@Pd and Au@Pt coreâ€“shell nanoparticles. Journal of Materials Chemistry, 2004, 14, 2868-2871.	6.7	80
79	Highly Oriented Gold Nanoribbons by the Reduction of Aqueous Chloroaurate Ions by Hexadecylaniline Langmuir Monolayers. Chemistry of Materials, 2003, 15, 17-19.	6.7	79
80	Sequential Electrostatic Assembly of Amine-Derivatized Gold and Carboxylic Acid-Derivatized Silver Colloidal Particles on Glass Substrates. Langmuir, 2000, 16, 6921-6926.	3.5	76
81	Heavy-Metal Remediation by a Fungus as a Means of Production of Lead and Cadmium Carbonate Crystals. Langmuir, 2005, 21, 7220-7224.	3.5	76
82	Spider Silk as an Active Scaffold in the Assembly of Gold Nanoparticles and Application of the Goldâ€“Silk Bioconjugate in Vapor Sensing. Small, 2007, 3, 466-473.	10.0	74
83	Cobalt and Magnesium Ferrite Nanoparticles:Â Preparation Using Liquid Foams as Templates and Their Magnetic Characteristics. Langmuir, 2005, 21, 10638-10643.	3.5	72
84	Synthesis of triangular Au coreâ€“Ag shell nanoparticles. Materials Research Bulletin, 2007, 42, 1212-1220.	5.2	71
85	A New Technique for the Spontaneous Growth of Colloidal Nanoparticle Superlattices. Langmuir, 1999, 15, 1902-1904.	3.5	70
86	Bioleaching of Sand by the FungusFusarium oxysporum as a Means of Producing Extracellular Silica Nanoparticles. Advanced Materials, 2005, 17, 889-892.	21.0	70
87	New approaches to the synthesis of anisotropic, coreâ€“shell and hollow metal nanostructures. Journal of Materials Chemistry, 2005, 15, 3161.	6.7	69
88	Probing differential Ag+â€“nucleobase interactions with isothermal titration calorimetry (ITC): Towards patterned DNA metallization. Nanoscale, 2009, 1, 122.	5.6	68
89	Ag+â€“Keggin ion colloidal particles as novel templates for the growth of silver nanoparticle assemblies. Journal of Materials Chemistry, 2003, 13, 3002-3005.	6.7	67
90	A facile liquid foam based synthesis of nickel nanoparticles and their subsequent conversion to NicoreAgshell particles: structural characterization and investigation of magnetic properties. Journal of Materials Chemistry, 2004, 14, 2941.	6.7	65

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91	Amphoterization of Colloidal Gold Particles by Capping with Valine Molecules and Their Phase Transfer from Water to Toluene by Electrostatic Coordination with Fatty Amine Molecules. Langmuir, 2000, 16, 9775-9783.	3.5	64
92	Deposition of thin films of TiO2from Langmuirâ€“Blodgett film precursors. Applied Physics Letters, 1993, 63, 18-20.	3.3	62
93	Foam-based synthesis of cobalt nanoparticles and their subsequent conversion to CocoreAgshell nanoparticles by a simple transmetallation reaction. Journal of Materials Chemistry, 2004, 14, 1057.	6.7	61
94	Encapsulation and biocatalytic activity of the enzyme pepsin in fatty lipid films by selective electrostatic interactions. Chemical Communications, 2000, , 297-298.	4.1	59
95	Immobilization and biocatalytic activity of fungal protease on gold nanoparticle-loaded zeolite microspheres. Biotechnology and Bioengineering, 2004, 85, 629-637.	3.3	58
96	Synthesis of Hydroxyapatite Crystals Using Amino Acid-Capped Gold Nanoparticles as a Scaffold. Langmuir, 2005, 21, 5185-5191.	3.5	58
97	Bacterial synthesis of silicon/silica nanocomposites. Journal of Materials Chemistry, 2008, 18, 2601.	6.7	57
98	Growth of Calcium Carbonate Crystals within Fatty Acid Bilayer Stacks. Langmuir, 2002, 18, 6075-6080.	3.5	56
99	Fabrication, Characterization, and Enzymatic Activity of Encapsulated Fungal Proteaseâ€'Fatty Lipid Biocomposite Films. Analytical Chemistry, 2000, 72, 4301-4309.	6.5	54
100	Preparation of Nearly Monodisperse Nickel Nanoparticles by a Facile Solution Based Methodology and Their Ordered Assemblies. Journal of Physical Chemistry C, 2009, 113, 3426-3429.	3.1	54
101	Graphene and Graphene Oxide as a Support for Biomolecules in the Development of Biosensors. Nanotechnology, Science and Applications, 2021, Volume 14, 197-220.	4.6	54
102	Microbial Nanoparticle Production. , 2005, , 126-135.		53
103	Studies on the formation of bioconjugates of Endoglucanase with colloidal gold. Colloids and Surfaces B: Biointerfaces, 2002, 25, 129-138.	5.0	52
104	Keggin Ion Mediated Synthesis of Hydrophobized Pd Nanoparticles for Multifunctional Catalysis. Langmuir, 2005, 21, 2408-2413.	3.5	52
105	Zirconia Enrichment in Zircon Sand by Selective Fungus-Mediated Bioleaching of Silica. Langmuir, 2007, 23, 4993-4998.	3.5	52
106	SrCO3Crystals of Ribbonlike Morphology Grown within Thermally Evaporated Sodium Bis-2-ethylhexylsulfosuccinate Thin Films. Langmuir, 2003, 19, 888-892.	3.5	50
107	Biological synthesis of metal carbonate minerals using fungi and actinomycetes. Journal of Materials Chemistry, 2004, 14, 2333.	6.7	50
108	Bacterial Enzyme Mediated Biosynthesis of Gold Nanoparticles. Journal of Nanoscience and Nanotechnology, 2007, 7, 4369-4377.	0.9	49

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109	Solvent-Adaptable Silver Nanoparticles. Langmuir, 2005, 21, 822-826.	3.5	48
110	Synthesis of Ag/Pd Nanoparticles and Their Low-Temperature Alloying within Thermally Evaporated Fatty Acid Films. Journal of Physical Chemistry B, 2002, 106, 297-302.	2.6	47
111	Silver nanoparticles of variable morphology synthesized in aqueous foams as novel templates. Bulletin of Materials Science, 2005, 28, 503-510.	1.7	46
112	Effect of halogen addition to monolayer protected gold nanoparticles. Journal of Materials Chemistry, 2007, 17, 1614.	6.7	46
113	Spontaneous Self-Organization via Cation Exchange in Fatty Acid Films Immersed in Aqueous Media. Langmuir, 1995, 11, 1078-1080.	3.5	45
114	Use of aqueous foams for the synthesis of gold nanoparticles of variable morphology. Journal of Materials Chemistry, 2004, 14, 43.	6.7	45
115	Phase Transfer of Aqueous CdS Nanoparticles by Coordination with Octadecanethiol Molecules Present in Nonpolar Organic Solvents. Langmuir, 2000, 16, 9299-9302.	3.5	44
116	Hybridization of DNA by Sequential Immobilization of Oligonucleotides at the Airâ^'Water Interface. Langmuir, 2000, 16, 9142-9146.	3.5	43
117	Phase transfer of oleic acid capped NicoreAgshell nanoparticles assisted by the flexibility of oleic acid on the surface of silver. Journal of Colloid and Interface Science, 2005, 283, 422-431.	9.4	43
118	Construction of conductive multilayer films of biogenic triangular gold nanoparticles and their application in chemical vapour sensing. Nanotechnology, 2006, 17, 2399-2405.	2.6	43
119	Formation of a Redox Active Self-Assembled Monolayer:â€‰ Naphtho[1,8-cd]-1,2-dithiol on Gold. Langmuir, 1997, 13, 866-869.	3.5	42
120	Time-dependent complexation of glucose-reduced gold nanoparticles with octadecylamine Langmuir monolayers. Journal of Colloid and Interface Science, 2004, 270, 133-139.	9.4	42
121	Novel structure of Langmuir-Blodgett films of chloroplatinic acid using n-octadecylamine: evidence for interdigitation of hydrocarbon chains. Journal of the American Chemical Society, 1993, 115, 793-794.	13.7	41
122	Synthesis of Catalytically Active Porous Platinum Nanoparticles by Transmetallation Reaction and Proposition of the Mechanism. Small, 2009, 5, 1467-1473.	10.0	39
123	Immobilization of biogenic gold nanoparticles in thermally evaporated fatty acid and amine thin films. Journal of Colloid and Interface Science, 2004, 274, 69-75.	9.4	38
124	Free-Standing Nanogold Membranes as Scaffolds for Enzyme Immobilization. Langmuir, 2004, 20, 3717-3723.	3.5	38
125	Synthesis and Assembly of CdS Nanoparticles in Keggin Ion Colloidal Particles as Templates. Journal of Physical Chemistry B, 2004, 108, 7126-7131.	2.6	38
126	Synthesis of Au-Core/Pt-Shell Nanoparticles within Thermally Evaporated Fatty Amine Films and Their Low-Temperature Alloying. Langmuir, 2001, 17, 7156-7159.	3.5	37

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127	Morphology of BaSO4 Crystals Grown on Templates of Varying Dimensionality:â€‰ The Case of Cysteine-Capped Gold Nanoparticles (0-D), DNA (1-D), and Lipid Bilayer Stacks (2-D). Crystal Growth and Design, 2002, 2, 197-203.	3.0	37
128	On the deposition of Langmuir-Blodgett films of Q-state CdS nanoparticles through electrostatic immobilization at the air-water interface. Thin Solid Films, 1998, 312, 300-305.	1.8	36
129	Langmuirâ€“Blodgett films of laurylamine-modified hydrophobic gold nanoparticles organized at the airâ€“water interface. Journal of Colloid and Interface Science, 2003, 260, 367-373.	9.4	36
130	Incorporation of Colloidal Metal Particles in Thermally Evaporated Fatty Amine Films via Selective Electrostatic Interactions. Langmuir, 1997, 13, 4490-4492.	3.5	35
131	Variation in morphology of gold nanoparticles synthesized by the spontaneous reduction of aqueous chloroaurate ions by alkylated tyrosine at a liquidâ€“liquid and airâ€“water interface. Journal of Materials Chemistry, 2004, 14, 2696.	6.7	35
132	Synthesis and structural characterization of nanocrystalline aluminium oxide. Materials Chemistry and Physics, 1994, 36, 354-358.	4.0	34
133	Organization of polymer-capped platinum colloidal particles at the airâ€“water interface. Thin Solid Films, 1998, 324, 239-244.	1.8	34
134	Size separation of colloidal nanoparticles using a miniscale isoelectric focusing technique. Journal of Chromatography A, 1999, 848, 485-490.	3.7	34
135	Enhanced Temperature and pH Stability of Fatty Amineâ^'Endoglucanase Composites:â€‰ Fabrication, Substrate Protection, and Biological Activity. Langmuir, 2001, 17, 5964-5970.	3.5	34
136	A new method for the synthesis of hydrophobized, catalytically active Pt nanoparticles. Chemical Communications, 2002, , 3002-3003.	4.1	34
137	Time-Dependent Complexation of Cysteine-Capped Gold Nanoparticles with Octadecylamine Langmuir Monolayers at the Airâ^'Water Interface. Langmuir, 2003, 19, 9147-9154.	3.5	34
138	Phase transfer of platinum nanoparticles from aqueous to organic solutions using fatty amine molecules. Journal of Chemical Sciences, 2004, 116, 293-300.	1.5	34
139	Aqueous Foams as Templates for the Synthesis of Calcite Crystal Assemblies of Spherical Morphology. Chemistry of Materials, 2004, 16, 1356-1361.	6.7	34
140	Interfacial deposition of Ag on Au seeds leading to AucoreAgshell in organic media. Journal of Colloid and Interface Science, 2007, 312, 498-505.	9.4	34
141	Halide ion controlled shape dependent gold nanoparticle synthesis with tryptophan as reducing agent: Enhanced fluorescent properties and white light emission. Chemical Physics Letters, 2010, 484, 271-275.	2.6	34
142	One Pot, Spontaneous and Simultaneous Synthesis of Gold Nanoparticles in Aqueous and Nonpolar Organic Solvents Using a Diamine-Containing Oxyethylene Linkage. Langmuir, 2004, 20, 295-298.	3.5	33
143	Lamellar Langmuirâ€“Blodgett films of hydrophobized colloidal gold nanoparticles by organization at the airâ€“water interface. Thin Solid Films, 2001, 384, 125-131.	1.8	31
144	Electrostatic Complexation of Carboxylic Acid Derivatized Silver Colloidal Particles with Fatty Amine Langmuir Monolayers. Role of Neutral Spacer Molecules in the Monolayer. Langmuir, 1998, 14, 74-78.	3.5	29

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145	Gold nanosheets via reduction of aqueous chloroaurate ions by anthracene anions bound to a liquidâ€“liquid interface. Chemical Communications, 2003, , 1236-1237.	4.1	29
146	Ultra-low level optical detection of mercuric ions using biogenic gold nanotriangles. Analyst, The, 2012, 137, 3083.	3.5	28
147	Structural studies on silver cluster films deposited on softened PVP substrates. Thin Solid Films, 1999, 338, 40-45.	1.8	27
148	Formation of Patterned, Heterocolloidal Nanoparticle Thin Films. Langmuir, 2000, 16, 3553-3556.	3.5	27
149	Hydrophobic, organically dispersible gold nanoparticles of variable shape produced by the spontaneous reduction of aqueous chloroaurate ions by hexadecylaniline molecules. Journal of Colloid and Interface Science, 2004, 279, 124-131.	9.4	27
150	Selective Binding of Divalent Cations at the Surface of Self-Assembled Monolayers of an Aromatic Bifunctional Molecule Studied on a Quartz Crystal Microbalance. Journal of Physical Chemistry B, 1997, 101, 1167-1170.	2.6	26
151	Studies on the Formation of DNAâ^'Cationic Lipid Composite Films and DNA Hybridization in the Composites. Journal of Physical Chemistry B, 2001, 105, 4409-4414.	2.6	26
152	Surface Derivatization of Colloidal Silver Particles Using Interdigitated Bilayers: A Novel Strategy for Electrostatic Immobilization of Colloidal Particles in Thermally Evaporated Fatty Acid/Fatty Amine Films. Langmuir, 1998, 14, 2707-2711.	3.5	25
153	Multilayer Langmuirâ€“Blodgett assemblies of hydrophobized CdS nanoparticles by organization at the airâ€“water interface. Journal of Materials Chemistry, 2000, 10, 1389-1393.	6.7	25
154	Ca2+â^'Keggin Anion Colloidal Particles as Templates for the Growth of Star-Shaped Calcite Crystal Assemblies. Langmuir, 2003, 19, 10095-10099.	3.5	25
155	A Study of the Partitioning of Colloidal Particles Based on Their Size during Electrostatic Immobilization at the Airâ^'Water Interface Using Fatty Amine Monolayers. Journal of Physical Chemistry B, 1997, 101, 9790-9793.	2.6	24
156	Flat gold nanostructures by the reduction of chloroaurate ions constrained to a monolayer at the airâ€“water interface. Journal of Materials Chemistry, 2004, 14, 709-714.	6.7	24
157	Biological Synthesis of Stable Vaterite Crystals by the Reaction of Calcium Ions with Germinating Chickpea Seeds. Crystal Growth and Design, 2005, 5, 399-402.	3.0	24
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