

Thalappil Pradeep

List of Publications by Year in descending order

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554
papers

28,970
citations

7069

78
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8835

145
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584
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584
docs citations

584
times ranked

26046
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomically Precise Clusters of Noble Metals: Emerging Link between Atoms and Nanoparticles. <i>Chemical Reviews</i> , 2017, 117, 8208-8271.	23.0	1,694
2	Potential of silver nanoparticle-coated polyurethane foam as an antibacterial water filter. <i>Biotechnology and Bioengineering</i> , 2005, 90, 59-63.	1.7	813
3	EFFECT OF NANOSCALE ZINC OXIDE PARTICLES ON THE GERMINATION, GROWTH AND YIELD OF PEANUT. <i>Journal of Plant Nutrition</i> , 2012, 35, 905-927.	0.9	754
4	Coalescence of Nanoclusters and Formation of Submicron Crystallites Assisted by <i>Lactobacillus</i> Strains. <i>Crystal Growth and Design</i> , 2002, 2, 293-298.	1.4	684
5	Thermal conductivities of naked and monolayer protected metal nanoparticle based nanofluids: Manifestation of anomalous enhancement and chemical effects. <i>Applied Physics Letters</i> , 2003, 83, 2931-2933.	1.5	684
6	Noble metal nanoparticles for water purification: A critical review. <i>Thin Solid Films</i> , 2009, 517, 6441-6478.	0.8	684
7	Reduced graphene oxide-metal/metal oxide composites: Facile synthesis and application in water purification. <i>Journal of Hazardous Materials</i> , 2011, 186, 921-931.	6.5	477
8	Model for Heat Conduction in Nanofluids. <i>Physical Review Letters</i> , 2004, 93, 144301.	2.9	453
9	Anisotropic nanomaterials: structure, growth, assembly, and functions. <i>Nano Reviews</i> , 2011, 2, 5883.	3.7	373
10	Copper Quantum Clusters in Protein Matrix: Potential Sensor of Pb^{2+} Ion. <i>Analytical Chemistry</i> , 2011, 83, 9676-9680.	3.2	311
11	Ligand Exchange of $Au_{25}SG_{18}$ Leading to Functionalized Gold Clusters: Spectroscopy, Kinetics, and Luminescence. <i>Journal of Physical Chemistry C</i> , 2008, 112, 12168-12176.	1.5	307
12	Molecular-receptor-specific, non-toxic, near-infrared-emitting Au cluster-protein nanoconjugates for targeted cancer imaging. <i>Nanotechnology</i> , 2010, 21, 055103.	1.3	291
13	Noble Metal Clusters: Applications in Energy, Environment, and Biology. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 1017-1053.	1.2	289
14	Picosecond optical nonlinearity in monolayer-protected gold, silver, and gold-silver alloy nanoclusters. <i>Physical Review B</i> , 2000, 62, 13160-13166.	1.1	282
15	Freely Dispersible $Au@TiO_2$, $Au@ZrO_2$, $Ag@TiO_2$, and $Ag@ZrO_2$ Core-Shell Nanoparticles: A One-Step Synthesis, Characterization, Spectroscopy, and Optical Limiting Properties. <i>Langmuir</i> , 2003, 19, 3439-3445.	1.6	267
16	Luminescent Ag_7 and Ag_8 Clusters by Interfacial Synthesis. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 3925-3929.	7.2	266
17	A micro-convection model for thermal conductivity of nanofluids. <i>Pramana - Journal of Physics</i> , 2005, 65, 863-869.	0.9	258
18	Ag_9 Quantum Cluster through a Solid-State Route. <i>Journal of the American Chemical Society</i> , 2010, 132, 16304-16307.	6.6	258

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19	A practical silver nanoparticle-based adsorbent for the removal of Hg ²⁺ from water. <i>Journal of Hazardous Materials</i> , 2011, 189, 450-457.	6.5	257
20	Luminescent quantum clusters of gold in transferrin family protein, lactoferrin exhibiting FRET. <i>Nanoscale</i> , 2010, 2, 2769.	2.8	252
21	Bright, NIR-emitting Au ₂₃ from Au ₂₅ : Characterization and Applications Including Biolabeling. <i>Chemistry - A European Journal</i> , 2009, 15, 10110-10120.	1.7	250
22	Luminescent Quantum Clusters of Gold in Bulk by Albumin-induced Core Etching of Nanoparticles: Metal Ion Sensing, Metal-enhanced Luminescence, and Biolabeling. <i>Chemistry - A European Journal</i> , 2010, 16, 10103-10112.	1.7	246
23	Understanding the Evolution of Luminescent Gold Quantum Clusters in Protein Templates. <i>ACS Nano</i> , 2011, 5, 8816-8827.	7.3	222
24	Graphene from Sugar and its Application in Water Purification. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 4156-4163.	4.0	216
25	Ag ₇ Au ₆ : A 13-Atom Alloy Quantum Cluster. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2155-2159.	7.2	210
26	Ciprofloxacin-Protected Gold Nanoparticles. <i>Langmuir</i> , 2004, 20, 1909-1914.	1.6	205
27	Graphene: A Reusable Substrate for Unprecedented Adsorption of Pesticides. <i>Small</i> , 2013, 9, 273-283.	5.2	196
28	Novel Effects of Nanoparticulate Delivery of Zinc on Growth, Productivity, and Zinc Biofortification in Maize (<i>Zea mays</i> L.). <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 3778-3788.	2.4	194
29	New Protocols for the Synthesis of Stable Ag and Au Nanocluster Molecules. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 1553-1564.	2.1	189
30	Reactions of ions with organic surfaces. <i>Accounts of Chemical Research</i> , 1994, 27, 316-323.	7.6	185
31	Protein-protected luminescent noble metal quantum clusters: an emerging trend in atomic cluster nanoscience. <i>Nano Reviews</i> , 2012, 3, 14767.	3.7	176
32	Two distinct fluorescent quantum clusters of gold starting from metallic nanoparticles by pH-dependent ligand etching. <i>Nano Research</i> , 2008, 1, 333-340.	5.8	169
33	Thermal conductivity enhancement of nanofluids containing graphene nanosheets. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	169
34	Growth of Gold Nanoparticles in Human Cells. <i>Langmuir</i> , 2005, 21, 11562-11567.	1.6	158
35	A fifteen atom silver cluster confined in bovine serum albumin. <i>Journal of Materials Chemistry</i> , 2011, 21, 11205.	6.7	156
36	Intercluster Reactions between Au ₂₅ (SR) ₁₈ and Ag ₄₄ (SR) ₃₀ . <i>Journal of the American Chemical Society</i> , 2016, 138, 140-148.	6.6	154

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37	Organic Solvent-Free Fabrication of Durable and Multifunctional Superhydrophobic Paper from Waterborne Fluorinated Cellulose Nanofiber Building Blocks. <i>ACS Nano</i> , 2017, 11, 11091-11099.	7.3	154
38	Understanding the Degradation Pathway of the Pesticide, Chlorpyrifos by Noble Metal Nanoparticles. <i>Langmuir</i> , 2012, 28, 2671-2679.	1.6	152
39	Approaching Materials with Atomic Precision Using Supramolecular Cluster Assemblies. <i>Accounts of Chemical Research</i> , 2019, 52, 2-11.	7.6	152
40	Interaction of nitrogen with fullerenes: nitrogen derivatives of C60 and C70. <i>The Journal of Physical Chemistry</i> , 1991, 95, 10564-10565.	2.9	150
41	A novel cellulose-manganese oxide hybrid material by in situ soft chemical synthesis and its application for the removal of Pb(II) from water. <i>Journal of Hazardous Materials</i> , 2010, 181, 986-995.	6.5	143
42	Separation of Precise Compositions of Noble Metal Clusters Protected with Mixed Ligands. <i>Journal of the American Chemical Society</i> , 2013, 135, 4946-4949.	6.6	138
43	Carbon aerogels through organo-inorganic co-assembly and their application in water desalination by capacitive deionization. <i>Carbon</i> , 2016, 99, 375-383.	5.4	134
44	As(III) removal from drinking water using manganese oxide-coated-alumina: Performance evaluation and mechanistic details of surface binding. <i>Chemical Engineering Journal</i> , 2009, 153, 101-107.	6.6	132
45	Quantum Clusters of Gold Exhibiting FRET. <i>Journal of Physical Chemistry C</i> , 2008, 112, 14324-14330.	1.5	127
46	Clean Water through Nanotechnology: Needs, Gaps, and Fulfillment. <i>ACS Nano</i> , 2020, 14, 6420-6435.	7.3	127
47	Quantum Clusters in Cavities: Trapped Au ₁₅ in Cyclodextrins. <i>Chemistry of Materials</i> , 2011, 23, 989-999.	3.2	124
48	Towards a practical solution for removing inorganic mercury from drinking water using gold nanoparticles. <i>Gold Bulletin</i> , 2009, 42, 144-152.	3.2	122
49	Electrical conductivity of ceramic and metallic nanofluids. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 417, 39-46.	2.3	122
50	Biopolymer-reinforced synthetic granular nanocomposites for affordable point-of-use water purification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 8459-8464.	3.3	122
51	The Superstable 25 kDa Monolayer Protected Silver Nanoparticle: Measurements and Interpretation as an Icosahedral Ag ₁₅₂ (SCH ₂ CH ₂ Ph) ₆₀ Cluster. <i>Nano Letters</i> , 2012, 12, 5861-5866.	4.5	121
52	Luminescent, bimetallic AuAg alloy quantum clusters in protein templates. <i>Nanoscale</i> , 2012, 4, 4255.	2.8	119
53	High yield combustion synthesis of nanomagnesia and its application for fluoride removal. <i>Science of the Total Environment</i> , 2010, 408, 2273-2282.	3.9	116
54	Self-Assembled Monolayers of Small Aromatic Disulfide and Diselenide Molecules on Polycrystalline Gold Films: A Comparative Study of the Geometrical Constraint Using Temperature-Dependent Surface-Enhanced Raman Spectroscopy, X-ray Photoelectron Spectroscopy, and Electrochemistry. <i>Langmuir</i> , 1999, 15, 5314-5322.	1.6	115

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55	Self-assembled Monolayers of 1,4-Benzenedimethanethiol on Polycrystalline Silver and Gold Films: An Investigation of Structure, Stability, Dynamics, and Reactivity. <i>Langmuir</i> , 1998, 14, 5446-5456.	1.6	114
56	Transparent, Luminescent, Antibacterial and Patternable Film Forming Composites of Graphene Oxide/Reduced Graphene Oxide. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 2643-2654.	4.0	113
57	Selective Visual Detection of TNT at the Sub-Zeptomole Level. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9596-9600.	7.2	109
58	Low-Energy Ionic Collisions at Molecular Solids. <i>Chemical Reviews</i> , 2012, 112, 5356-5411.	23.0	107
59	Structure-conserving spontaneous transformations between nanoparticles. <i>Nature Communications</i> , 2016, 7, 13447.	5.8	106
60	Surface Chemical Studies on Pyrite in the Presence of Polysaccharide-Based Flotation Depressants. <i>Journal of Colloid and Interface Science</i> , 2000, 229, 82-91.	5.0	103
61	One-Step Route to Luminescent Au ₁₈ SG ₁₄ in the Condensed Phase and Its Closed Shell Molecular Ions in the Gas Phase. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1997-2002.	2.1	103
62	On the formation of protected gold nanoparticles from AuCl ₄ ⁻ by the reduction using aromatic amines. <i>Journal of Nanoparticle Research</i> , 2005, 7, 209-217.	0.8	99
63	Uptake of Toxic Metal Ions from Water by Naked and Monolayer Protected Silver Nanoparticles: An X-ray Photoelectron Spectroscopic Investigation. <i>Journal of Physical Chemistry C</i> , 2010, 114, 8328-8336.	1.5	96
64	Unprecedented inhibition of tubulin polymerization directed by gold nanoparticles inducing cell cycle arrest and apoptosis. <i>Nanoscale</i> , 2013, 5, 4476.	2.8	95
65	Solar mediated reduction of graphene oxide. <i>RSC Advances</i> , 2017, 7, 957-963.	1.7	95
66	Supramolecular Functionalization and Concomitant Enhancement in Properties of Au ₂₅ Clusters. <i>ACS Nano</i> , 2014, 8, 139-152.	7.3	94
67	Antimicrobial silver: An unprecedented anion effect. <i>Scientific Reports</i> , 2014, 4, 7161.	1.6	87
68	Body- or Tip-Controlled Reactivity of Gold Nanorods and Their Conversion to Particles through Other Anisotropic Structures. <i>Langmuir</i> , 2007, 23, 9463-9471.	1.6	85
69	Single- and few-layer graphene growth on stainless steel substrates by direct thermal chemical vapor deposition. <i>Nanotechnology</i> , 2011, 22, 165701.	1.3	85
70	Molecular Ionization from Carbon Nanotube Paper. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5936-5940.	7.2	85
71	Influence of 2D rGO nanosheets on the properties of OPC paste. <i>Cement and Concrete Composites</i> , 2016, 70, 48-59.	4.6	85
72	Interparticle Reactions: An Emerging Direction in Nanomaterials Chemistry. <i>Accounts of Chemical Research</i> , 2017, 50, 1988-1996.	7.6	85

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73	Room-Temperature Chemical Synthesis of Silver Telluride Nanowires. <i>Journal of Physical Chemistry C</i> , 2009, 113, 13539-13544.	1.5	84
74	Mesoflowers: A new class of highly efficient surface-enhanced Raman active and infrared-absorbing materials. <i>Nano Research</i> , 2009, 2, 306-320.	5.8	82
75	Functionalized Au ₂₂ Clusters: Synthesis, Characterization, and Patterning. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 2199-2210.	4.0	81
76	Reversible Assembly and Disassembly of Gold Nanorods Induced by EDTA and Its Application in SERS Tuning. <i>Langmuir</i> , 2011, 27, 3381-3390.	1.6	81
77	Investigations of the Antibacterial Properties of Ciprofloxacin@SiO ₂ . <i>Langmuir</i> , 2006, 22, 10125-10129.	1.6	80
78	Camouflaging Structural Diversity: Co-crystallization of Two Different Nanoparticles Having Different Cores But the Same Shell. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 189-194.	7.2	80
79	Solvothermal synthesis of silver nanoparticles from thiolates. <i>Journal of Colloid and Interface Science</i> , 2003, 268, 81-84.	5.0	78
80	Protein-Directed Synthesis of NIR-Emitting, Tunable HgS Quantum Dots and their Applications in Metal-Ion Sensing. <i>Small</i> , 2012, 8, 3175-3184.	5.2	78
81	Ag ₄₄ (SeR) ₃₀ : A Hollow Cage Silver Cluster with Selenolate Protection. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3351-3355.	2.1	78
82	Thiolate-protected Ag ₃₂ clusters: mass spectral studies of composition and insights into the Ag-thiolate structure from NMR. <i>Nanoscale</i> , 2013, 5, 9404.	2.8	77
83	A novel iron fullerene (FeC ₆₀) adduct in the solid state. <i>Journal of the American Chemical Society</i> , 1992, 114, 2272-2273.	6.6	76
84	One-, Two-, and Three-Dimensional Superstructures of Gold Nanorods Induced by Dimercaptosuccinic Acid. <i>Langmuir</i> , 2008, 24, 4589-4599.	1.6	76
85	Tellurium Nanowire-Induced Room Temperature Conversion of Graphite Oxide to Leaf-like Graphenic Structures. <i>Journal of Physical Chemistry C</i> , 2009, 113, 1727-1737.	1.5	76
86	Optical limiting properties of Te and Ag ₂ Te nanowires. <i>Chemical Physics Letters</i> , 2010, 485, 326-330.	1.2	76
87	Self-Assembly of Precision Noble Metal Nanoclusters: Hierarchical Structural Complexity, Colloidal Superstructures, and Applications. <i>Small</i> , 2021, 17, e2005718.	5.2	76
88	An investigation of the structure and properties of layered copper thiolates. <i>Journal of Materials Chemistry</i> , 2001, 11, 1294-1299.	6.7	75
89	Protein-encapsulated gold cluster aggregates: the case of lysozyme. <i>Nanoscale</i> , 2013, 5, 2009.	2.8	75
90	Rapid Synthesis of C-TiO ₂ : Tuning the Shape from Spherical to Rice Grain Morphology for Visible Light Photocatalytic Application. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 1321-1329.	3.2	75

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91	A Combined Surface-Enhanced Ramanâ€”X-Ray Photoelectron Spectroscopic Study of 2-mercaptobenzothiazole Monolayers on Polycrystalline Au and Ag Films. <i>Journal of Colloid and Interface Science</i> , 1999, 209, 154-161.	5.0	74
92	Supported quantum clusters of silver as enhanced catalysts for reduction. <i>Nanoscale Research Letters</i> , 2011, 6, 123.	3.1	74
93	Understanding the Molecular Signatures in Leaves and Flowers by Desorption Electrospray Ionization Mass Spectrometry (DESI MS) Imaging. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 7477-7487.	2.4	74
94	Manganese dioxide nanowhiskers: A potential adsorbent for the removal of Hg(II) from water. <i>Chemical Engineering Journal</i> , 2010, 160, 432-439.	6.6	72
95	Luminescent, Freestanding Composite Films of Au₁₅ for Specific Metal Ion Sensing. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 639-644.	4.0	72
96	Accelerated microdroplet synthesis of benzimidazoles by nucleophilic addition to protonated carboxylic acids. <i>Chemical Science</i> , 2020, 11, 12686-12694.	3.7	72
97	Monolayer-Protected Cluster Superlattices:Â Structural, Spectroscopic, Calorimetric, and Conductivity Studies. <i>Chemistry of Materials</i> , 2000, 12, 104-113.	3.2	71
98	High temperature nucleation and growth of glutathione protected $\frac{1}{4}$ Ag ₇₅ clusters. <i>Chemical Communications</i> , 2012, 48, 6788.	2.2	71
99	Synthesis of Silicon Nanoparticles from Rice Husk and their Use as Sustainable Fluorophores for White Light Emission. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 6203-6210.	3.2	71
100	Confining an Ag₁₀ Core in an Ag₁₂ Shell: A Four-Electron Superatom with Enhanced Photoluminescence upon Crystallization. <i>ACS Nano</i> , 2019, 13, 5753-5759.	7.3	70
101	Current understanding of the structure, phase transitions and dynamics of self-assembled monolayers on two- and three-dimensional surfaces. <i>International Reviews in Physical Chemistry</i> , 2003, 22, 221-262.	0.9	69
102	Simple and Efficient Separation of Atomically Precise Noble Metal Clusters. <i>Analytical Chemistry</i> , 2014, 86, 12185-12190.	3.2	69
103	Simultaneous Dehalogenation and Removal of Persistent Halocarbon Pesticides from Water Using Graphene Nanocomposites: A Case Study of Lindane. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 1155-1163.	3.2	69
104	Hemoprotein Bioconjugates of Gold and Silver Nanoparticles and Gold Nanorods:Â Structureâ””Function Correlations. <i>Langmuir</i> , 2007, 23, 1320-1325.	1.6	67
105	Wires, Plates, Flowers, Needles, and Coreâ””Shells:â€” Diverse Nanostructures of Gold Using Polyaniline Templates. <i>Langmuir</i> , 2008, 24, 4607-4614.	1.6	67
106	Diffusion-Controlled Simultaneous Sensing and Scavenging of Heavy Metal Ions in Water Using Atomically Precise Clusterâ€”Cellulose Nanocrystal Composites. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 6167-6176.	3.2	67
107	Nonlinear light transmission through oxide-protected Au and Ag nanoparticles: an investigation in the nanosecond domain. <i>Chemical Physics Letters</i> , 2003, 380, 223-229.	1.2	66
108	Extraction of Chlorpyrifos and Malathion from Water by Metal Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 1871-1877.	0.9	66

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109	Enhanced visual detection of pesticides using gold nanoparticles. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2009, 44, 697-705.	0.7	65
110	A thirty-fold photoluminescence enhancement induced by secondary ligands in monolayer protected silver clusters. <i>Nanoscale</i> , 2018, 10, 20033-20042.	2.8	65
111	Facile and Rapid Synthesis of a Dithiol-Protected Ag ₇ Quantum Cluster for Selective Adsorption of Cationic Dyes. <i>Langmuir</i> , 2013, 29, 8125-8132.	1.6	64
112	Au ₂₂ Ir ₃ (PET) ₁₈ : An Unusual Alloy Cluster through Intercluster Reaction. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2787-2793.	2.1	64
113	Investigation into the Reactivity of Unsupported and Supported Ag ₇ and Ag ₈ Clusters with Toxic Metal Ions. <i>Langmuir</i> , 2011, 27, 8134-8143.	1.6	63
114	Luminescent sub-nanometer clusters for metal ion sensing: A new direction in nanosensors. <i>Journal of Hazardous Materials</i> , 2012, 211-212, 396-403.	6.5	63
115	Immobilized graphene-based composite from asphalt: Facile synthesis and application in water purification. <i>Journal of Hazardous Materials</i> , 2013, 246-247, 213-220.	6.5	63
116	Zero Volt Paper Spray Ionization and Its Mechanism. <i>Analytical Chemistry</i> , 2015, 87, 6786-6793.	3.2	63
117	Precursor-controlled synthesis of hierarchical ZnO nanostructures, using oligoaniline-coated Au nanoparticle seeds. <i>Journal of Crystal Growth</i> , 2009, 311, 3889-3897.	0.7	62
118	Polymorphism of Ag ₂₉ (BDT) ₁₂ (TPP) ₄ ³⁺ cluster: interactions of secondary ligands and their effect on solid state luminescence. <i>Nanoscale</i> , 2018, 10, 9851-9855.	2.8	61
119	Au ₂₅ @SiO ₂ : Quantum Clusters of Gold Embedded in Silica. <i>Small</i> , 2011, 7, 204-208.	5.2	60
120	Porosity of core-shell nanoparticles. <i>Journal of Materials Chemistry</i> , 2004, 14, 2661-2666.	6.7	59
121	Reactivity of Au ₂₅ clusters with Au ³⁺ . <i>Chemical Physics Letters</i> , 2007, 449, 186-190.	1.2	59
122	Enhancement in the efficiency of polymerase chain reaction by TiO ₂ nanoparticles: crucial role of enhanced thermal conductivity. <i>Nanotechnology</i> , 2010, 21, 255704.	1.3	59
123	Ag ₁₁ (SG) ₇ : A New Cluster Identified by Mass Spectrometry and Optical Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 21722-21729.	1.5	59
124	Addition of amines and halogens to fullerenes C ₆₀ and C ₇₀ . <i>Tetrahedron Letters</i> , 1992, 33, 2069-2070.	0.7	57
125	Rapid dehalogenation of pesticides and organics at the interface of reduced graphene oxide-silver nanocomposite. <i>Journal of Hazardous Materials</i> , 2016, 308, 192-198.	6.5	57
126	Atomically Precise Nanocluster Assemblies Encapsulating Plasmonic Gold Nanorods. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6522-6526.	7.2	57

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127	Interfacial synthesis of luminescent 7 kDa silver clusters. <i>Journal of Materials Chemistry</i> , 2009, 19, 4335.	6.7	56
128	[Au ₂₅ (SR) ₁₈] ₂ ²⁺ : a noble metal cluster dimer in the gas phase. <i>Chemical Communications</i> , 2016, 52, 8397-8400.	2.2	56
129	Surface-Induced dissociation from a liquid surface. <i>Journal of the American Society for Mass Spectrometry</i> , 1993, 4, 769-773.	1.2	55
130	Detection and extraction of endosulfan by metal nanoparticles. <i>Journal of Environmental Monitoring</i> , 2003, 5, 363-365.	2.1	55
131	Electric-Field-Assisted Growth of Highly Uniform and Oriented Gold Nanotriangles on Conducting Glass Substrates. <i>Advanced Materials</i> , 2008, 20, 980-983.	11.1	55
132	Size tuning of Au nanoparticles formed by electron beam irradiation of Au ₂₅ quantum clusters anchored within and outside of dipeptide nanotubes. <i>Journal of Materials Chemistry</i> , 2009, 19, 8456.	6.7	55
133	A copper cluster protected with phenylethanethiol. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	55
134	Sunlight mediated synthesis and antibacterial properties of monolayer protected silver clusters. <i>Journal of Materials Chemistry B</i> , 2013, 1, 4059.	2.9	55
135	Nonenzymatic Glucose Sensing Using Ni ₆₀ Nb ₄₀ Nanoglass. <i>ACS Nano</i> , 2020, 14, 5543-5552.	7.3	55
136	Investigation of the role of NaBH ₄ in the chemical synthesis of gold nanorods. <i>Journal of Nanoparticle Research</i> , 2010, 12, 1777-1786.	0.8	54
137	Functional hybrid nickel nanostructures as recyclable SERS substrates: detection of explosives and biowarfare agents. <i>Nanoscale</i> , 2012, 4, 3427.	2.8	54
138	Cellulose Derived Graphenic Fibers for Capacitive Desalination of Brackish Water. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 20156-20163.	4.0	54
139	Reactions of Metal Ions at Fluorinated SAM (Self-Assembled Monolayer) Surfaces: Formation of MF _n ⁺ (M = Ti, Cr, Fe, Mo, and W; n = 1-5). <i>Journal of the American Chemical Society</i> , 1994, 116, 8658-8665.	6.6	53
140	A Unified Framework for Understanding the Structure and Modifications of Atomically Precise Monolayer Protected Gold Clusters. <i>Journal of Physical Chemistry C</i> , 2015, 119, 27768-27785.	1.5	53
141	Single-Cell Investigations of Silver Nanoparticle-Bacteria Interactions. <i>Particle and Particle Systems Characterization</i> , 2013, 30, 1056-1062.	1.2	51
142	Melting of monolayer protected cluster superlattices. <i>Journal of Chemical Physics</i> , 2000, 113, 9794-9803.	1.2	50
143	Pristine and Hybrid Nickel Nanowires: Template-, Magnetic Field-, and Surfactant-Free Wet Chemical Synthesis and Raman Studies. <i>Journal of Physical Chemistry C</i> , 2011, 115, 4483-4490.	1.5	49
144	Dissociation of Gas Phase Ions of Atomically Precise Silver Clusters Reflects Their Solution Phase Stability. <i>Journal of Physical Chemistry C</i> , 2017, 121, 10971-10981.	1.5	49

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145	Confined Metastable 2D Line Ferrihydrite for Affordable Point-of-Use Arsenic-Free Drinking Water. <i>Advanced Materials</i> , 2017, 29, 1604260.	11.1	49
146	Fullerene-Functionalized Monolayer-Protected Silver Clusters: [Ag ₂₉ (BDT) ₁₂ (C ₆₀) _n] ³⁺ (n = 1-7). <i>ACS Nano</i> , 2017, 11, 10000.	7.7	49
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