

Thalappil Pradeep

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544
papers

24,156
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73
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136
g-index

584
ext. papers

26,565
ext. citations

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avg, IF

7.55
L-index

#	Paper	IF	Citations
544	Atomically Precise Clusters of Noble Metals: Emerging Link between Atoms and Nanoparticles. <i>Chemical Reviews</i> , 2017 , 117, 8208-8271	68.1	1195
543	Potential of silver nanoparticle-coated polyurethane foam as an antibacterial water filter. <i>Biotechnology and Bioengineering</i> , 2005 , 90, 59-63	4.9	706
542	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	2.4	604
541	Coalescence of Nanoclusters and Formation of Submicron Crystallites Assisted by Lactobacillus Strains. <i>Crystal Growth and Design</i> , 2002 , 2, 293-298	3.5	596
540	Noble metal nanoparticles for water purification: A critical review. <i>Thin Solid Films</i> , 2009 , 517, 6441-6478	2.2	583
539	EFFECT OF NANOSCALE ZINC OXIDE PARTICLES ON THE GERMINATION, GROWTH AND YIELD OF PEANUT. <i>Journal of Plant Nutrition</i> , 2012 , 35, 905-927	2.3	539
538	2007 ,		470
537	Reduced graphene oxide-metal/metal oxide composites: facile synthesis and application in water purification. <i>Journal of Hazardous Materials</i> , 2011 , 186, 921-31	12.8	421
536	Model for heat conduction in nanofluids. <i>Physical Review Letters</i> , 2004 , 93, 144301	7.4	398
535	Anisotropic nanomaterials: structure, growth, assembly, and functions. <i>Nano Reviews</i> , 2011 , 2,		312
534	Copper quantum clusters in protein matrix: potential sensor of Pb ²⁺ ion. <i>Analytical Chemistry</i> , 2011 , 83, 9676-80	7.8	284
533	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	3.8	284
532	Picosecond optical nonlinearity in monolayer-protected gold, silver, and gold-silver alloy nanoclusters. <i>Physical Review B</i> , 2000 , 62, 13160-13166	3.3	267
531	Noble Metal Clusters: Applications in Energy, Environment, and Biology. <i>Particle and Particle Systems Characterization</i> , 2014 , 31, 1017-1053	3.1	259
530	Molecular-receptor-specific, non-toxic, near-infrared-emitting Au cluster-protein nanoconjugates for targeted cancer imaging. <i>Nanotechnology</i> , 2010 , 21, 055103	3.4	258
529	Freely Dispersible [email[protected]]2, [email[protected]]2, [email[protected]]2, and [email[protected]]2 CoreShell Nanoparticles: One-Step Synthesis, Characterization, Spectroscopy, and Optical Limiting Properties. <i>Langmuir</i> , 2003 , 19, 3439-3445	4	243
528	Luminescent Ag ₇ and Ag ₈ clusters by interfacial synthesis. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 3925-9	16.4	242

527	Luminescent quantum clusters of gold in transferrin family protein, lactoferrin exhibiting FRET. <i>Nanoscale</i> , 2010 , 2, 2769-76	7.7	238
526	Bright, NIR-emitting Au ₂₃ from Au ₂₅ : characterization and applications including biolabeling. <i>Chemistry - A European Journal</i> , 2009 , 15, 10110-20	4.8	237
525	Ag(9) quantum cluster through a solid-state route. <i>Journal of the American Chemical Society</i> , 2010 , 132, 16304-7	16.4	231
524	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, 10103-12	4.8	226
523	A micro-convection model for thermal conductivity of nanofluids 2005 , 65, 863-869		217
522	A practical silver nanoparticle-based adsorbent for the removal of Hg ²⁺ from water. <i>Journal of Hazardous Materials</i> , 2011 , 189, 450-7	12.8	216
521	Ag ₇ Au ₆ : a 13-atom alloy quantum cluster. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 2155-9	16.4	204
520	Understanding the evolution of luminescent gold quantum clusters in protein templates. <i>ACS Nano</i> , 2011 , 5, 8816-27	16.7	203
519	Ciprofloxacin-protected gold nanoparticles. <i>Langmuir</i> , 2004 , 20, 1909-14	4	181
518	Reactions of ions with organic surfaces. <i>Accounts of Chemical Research</i> , 1994 , 27, 316-323	24.3	177
517	Graphene: a reusable substrate for unprecedented adsorption of pesticides. <i>Small</i> , 2013 , 9, 273-83	11	173
516	Graphene from sugar and its application in water purification. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 4156-63	9.5	171
515	New Protocols for the Synthesis of Stable Ag and Au Nanocluster Molecules. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 1553-64	6.4	164
514	Protein-protected luminescent noble metal quantum clusters: an emerging trend in atomic cluster nanoscience. <i>Nano Reviews</i> , 2012 , 3,		158
513	Thermal conductivity enhancement of nanofluids containing graphene nanosheets. <i>Journal of Applied Physics</i> , 2011 , 110, 084302	2.5	151
512	Two distinct fluorescent quantum clusters of gold starting from metallic nanoparticles by pH-dependent ligand etching. <i>Nano Research</i> , 2008 , 1, 333-340	10	149
511	Growth of gold nanoparticles in human cells. <i>Langmuir</i> , 2005 , 21, 11562-7	4	138
510	Interaction of nitrogen with fullerenes: nitrogen derivatives of C ₆₀ and C ₇₀ . <i>The Journal of Physical Chemistry</i> , 1991 , 95, 10564-10565		136

509	A fifteen atom silver cluster confined in bovine serum albumin. <i>Journal of Materials Chemistry</i> , 2011 , 21, 11205		135
508	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, 986-95	12.8	131
507	Intercluster Reactions between Au ₂₅ (SR) ₁₈ and Ag ₄₄ (SR) ₃₀ . <i>Journal of the American Chemical Society</i> , 2016 , 138, 140-8	16.4	127
506	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, 3778-88	5.7	127
505	Understanding the degradation pathway of the pesticide, chlorpyrifos by noble metal nanoparticles. <i>Langmuir</i> , 2012 , 28, 2671-9	4	126
504	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	16.7	120
503	Quantum Clusters of Gold Exhibiting FRET. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 14324-14330	3.8	119
502	Separation of precise compositions of noble metal clusters protected with mixed ligands. <i>Journal of the American Chemical Society</i> , 2013 , 135, 4946-9	16.4	118
501	Quantum Clusters in Cavities: Trapped Au ₁₅ in Cyclodextrins. <i>Chemistry of Materials</i> , 2011 , 23, 989-999	9.6	116
500	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, 5861-6	11.5	114
499	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, 8459-64	11.5	113
498	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	14.7	113
497	Towards a practical solution for removing inorganic mercury from drinking water using gold nanoparticles 2009 , 42, 144-152		109
496	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	4	108
495	Carbon aerogels through organo-inorganic co-assembly and their application in water desalination by capacitive deionization. <i>Carbon</i> , 2016 , 99, 375-383	10.4	107
494	Luminescent, bimetallic AuAg alloy quantum clusters in protein templates. <i>Nanoscale</i> , 2012 , 4, 4255-62	7.7	106
493	High yield combustion synthesis of nanomagnesia and its application for fluoride removal. <i>Science of the Total Environment</i> , 2010 , 408, 2273-82	10.2	106
492	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	4	104

491	Electrical conductivity of ceramic and metallic nanofluids. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013 , 417, 39-46	5.1	103
490	Transparent, luminescent, antibacterial and patternable film forming composites of graphene oxide/reduced graphene oxide. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 2643-54	9.5	100
489	Approaching Materials with Atomic Precision Using Supramolecular Cluster Assemblies. <i>Accounts of Chemical Research</i> , 2019 , 52, 2-11	24.3	98
488	Selective visual detection of TNT at the sub-zeptomole level. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 9596-600	16.4	97
487	On the formation of protected gold nanoparticles from AuCl ₃ by the reduction using aromatic amines. <i>Journal of Nanoparticle Research</i> , 2005 , 7, 209-217	2.3	97
486	Low-energy ionic collisions at molecular solids. <i>Chemical Reviews</i> , 2012 , 112, 5356-411	68.1	93
485	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	6.4	93
484	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	3.8	91
483	Structure-conserving spontaneous transformations between nanoparticles. <i>Nature Communications</i> , 2016 , 7, 13447	17.4	84
482	Unprecedented inhibition of tubulin polymerization directed by gold nanoparticles inducing cell cycle arrest and apoptosis. <i>Nanoscale</i> , 2013 , 5, 4476-89	7.7	83
481	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	9.3	82
480	Supramolecular functionalization and concomitant enhancement in properties of Au(25) clusters. <i>ACS Nano</i> , 2014 , 8, 139-52	16.7	81
479	Molecular ionization from carbon nanotube paper. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 5936-40	16.4	81
478	Mesoflowers: A new class of highly efficient surface-enhanced Raman active and infrared-absorbing materials. <i>Nano Research</i> , 2009 , 2, 306-320	10	80
477	Single- and few-layer graphene growth on stainless steel substrates by direct thermal chemical vapor deposition. <i>Nanotechnology</i> , 2011 , 22, 165701	3.4	78
476	Functionalized Au ₂₂ clusters: synthesis, characterization, and patterning. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 2199-210	9.5	77
475	Body- or tip-controlled reactivity of gold nanorods and their conversion to particles through other anisotropic structures. <i>Langmuir</i> , 2007 , 23, 9463-71	4	75
474	Protein-encapsulated gold cluster aggregates: the case of lysozyme. <i>Nanoscale</i> , 2013 , 5, 2009-16	7.7	73

473	Protein-directed synthesis of NIR-emitting, tunable HgS quantum dots and their applications in metal-ion sensing. <i>Small</i> , 2012 , 8, 3175-84	11	73
472	Reversible assembly and disassembly of gold nanorods induced by EDTA and its application in SERS tuning. <i>Langmuir</i> , 2011 , 27, 3381-90	4	73
471	Supported quantum clusters of silver as enhanced catalysts for reduction. <i>Nanoscale Research Letters</i> , 2011 , 6, 123	5	72
470	An investigation of the structure and properties of layered copper thiolates. <i>Journal of Materials Chemistry</i> , 2001 , 11, 1294-1299		72
469	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	3.8	71
468	One-, two-, and three-dimensional superstructures of gold nanorods induced by dimercaptosuccinic acid. <i>Langmuir</i> , 2008 , 24, 4589-99	4	71
467	Room-Temperature Chemical Synthesis of Silver Telluride Nanowires. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 13539-13544	3.8	70
466	Solar mediated reduction of graphene oxide. <i>RSC Advances</i> , 2017 , 7, 957-963	3.7	69
465	Investigations of the antibacterial properties of ciprofloxacin@SiO ₂ . <i>Langmuir</i> , 2006 , 22, 10125-9	4	69
464	Solvothermal synthesis of silver nanoparticles from thiolates. <i>Journal of Colloid and Interface Science</i> , 2003 , 268, 81-4	9.3	69
463	Antimicrobial silver: an unprecedented anion effect. <i>Scientific Reports</i> , 2014 , 4, 7161	4.9	68
462	Ag ₄₄ (SeR) ₃₀ : A Hollow Cage Silver Cluster with Selenolate Protection. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 3351-5	6.4	68
461	Thiolate-protected Ag ₁₄ clusters: mass spectral studies of composition and insights into the Ag-thiolate structure from NMR. <i>Nanoscale</i> , 2013 , 5, 9404-11	7.7	67
460	Interparticle Reactions: An Emerging Direction in Nanomaterials Chemistry. <i>Accounts of Chemical Research</i> , 2017 , 50, 1988-1996	24.3	67
459	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	8.3	67
458	High temperature nucleation and growth of glutathione protected ~Ag ₇₅ clusters. <i>Chemical Communications</i> , 2012 , 48, 6788-90	5.8	67
457	Wires, plates, flowers, needles, and core-shells: diverse nanostructures of gold using polyaniline templates. <i>Langmuir</i> , 2008 , 24, 4607-14	4	67
456	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	7	66

455	Optical limiting properties of Te and Ag ₂ Te nanowires. <i>Chemical Physics Letters</i> , 2010 , 485, 326-330	2.5	65
454	A Combined Surface-Enhanced Raman-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	9.3	65
453	Manganese dioxide nanowhiskers: A potential adsorbent for the removal of Hg(II) from water. <i>Chemical Engineering Journal</i> , 2010 , 160, 432-439	14.7	64
452	Hemoprotein bioconjugates of gold and silver nanoparticles and gold nanorods: structure-function correlations. <i>Langmuir</i> , 2007 , 23, 1320-5	4	64
451	Monolayer-Protected Cluster Superlattices: Structural, Spectroscopic, Calorimetric, and Conductivity Studies. <i>Chemistry of Materials</i> , 2000 , 12, 104-113	9.6	64
450	Luminescent, freestanding composite films of Au ₁₅ for specific metal ion sensing. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 639-44	9.5	63
449	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, 7477-87	5.7	62
448	Investigation into the reactivity of unsupported and supported Ag ₇ and Ag ₈ clusters with toxic metal ions. <i>Langmuir</i> , 2011 , 27, 8134-43	4	62
447	A novel iron fullerene (FeC ₆₀) adduct in the solid state. <i>Journal of the American Chemical Society</i> , 1992 , 114, 2272-2273	16.4	61
446	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	8.3	60
445	Extraction of chlorpyrifos and malathion from water by metal nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 1871-7	1.3	60
444	Simple and efficient separation of atomically precise noble metal clusters. <i>Analytical Chemistry</i> , 2014 , 86, 12185-90	7.8	59
443	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	16.4	59
442	Immobilized graphene-based composite from asphalt: facile synthesis and application in water purification. <i>Journal of Hazardous Materials</i> , 2013 , 246-247, 213-20	12.8	58
441	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	2.5	58
440	Clean Water through Nanotechnology: Needs, Gaps, and Fulfillment. <i>ACS Nano</i> , 2020 , 14, 6420-6435	16.7	57
439	Luminescent sub-nanometer clusters for metal ion sensing: a new direction in nanosensors. <i>Journal of Hazardous Materials</i> , 2012 , 211-212, 396-403	12.8	57
438	Facile and rapid synthesis of a dithiol-protected Ag ₇ quantum cluster for selective adsorption of cationic dyes. <i>Langmuir</i> , 2013 , 29, 8125-32	4	57

437	Au ₂₅ @SiO ₂ : quantum clusters of gold embedded in silica. <i>Small</i> , 2011 , 7, 204-8	11	57
436	Precursor-controlled synthesis of hierarchical ZnO nanostructures, using oligoaniline-coated Au nanoparticle seeds. <i>Journal of Crystal Growth</i> , 2009 , 311, 3889-3897	1.6	57
435	Porosity of core-shell nanoparticles. <i>Journal of Materials Chemistry</i> , 2004 , 14, 2661-2666		57
434	Influence of 2D rGO nanosheets on the properties of OPC paste. <i>Cement and Concrete Composites</i> , 2016 , 70, 48-59	8.6	57
433	Zero Volt Paper Spray Ionization and Its Mechanism. <i>Analytical Chemistry</i> , 2015 , 87, 6786-93	7.8	54
432	Diffusion-Controlled Simultaneous Sensing and Scavenging of Heavy Metal Ions in Water Using Atomically Precise Cluster@Cellulose Nanocrystal Composites. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 6167-6176	8.3	52
431	Reactivity of Au ₂₅ clusters with Au ³⁺ . <i>Chemical Physics Letters</i> , 2007 , 449, 186-190	2.5	52
430	Electric-Field-Assisted Growth of Highly Uniform and Oriented Gold Nanotriangles on Conducting Glass Substrates. <i>Advanced Materials</i> , 2008 , 20, 980-983	24	52
429	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	16.4	52
428	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	3.8	51
427	A copper cluster protected with phenylethanethiol. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	51
426	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	2.2	51
425	Rapid dehalogenation of pesticides and organics at the interface of reduced graphene oxide-silver nanocomposite. <i>Journal of Hazardous Materials</i> , 2016 , 308, 192-8	12.8	50
424	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		50
423	Interfacial synthesis of luminescent 7 kDa silver clusters. <i>Journal of Materials Chemistry</i> , 2009 , 19, 4335		50
422	Addition of amines and halogens to fullerenes C ₆₀ and C ₇₀ . <i>Tetrahedron Letters</i> , 1992 , 33, 2069-2070	2	50
421	Sunlight mediated synthesis and antibacterial properties of monolayer protected silver clusters. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 4059-4064	7.3	49
420	Functional hybrid nickel nanostructures as recyclable SERS substrates: detection of explosives and biowarfare agents. <i>Nanoscale</i> , 2012 , 4, 3427-37	7.7	49

4 ¹⁹	Detection and extraction of endosulfan by metal nanoparticles. <i>Journal of Environmental Monitoring</i> , 2003 , 5, 363-5		49
4 ¹⁸	Surface-Induced dissociation from a liquid surface. <i>Journal of the American Society for Mass Spectrometry</i> , 1993 , 4, 769-73	3.5	49
4 ¹⁷	AuI _r (PET): An Unusual Alloy Cluster through Intercluster Reaction. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 2787-2793	6.4	48
4 ¹⁶	Enhancement in the efficiency of polymerase chain reaction by TiO ₂ nanoparticles: crucial role of enhanced thermal conductivity. <i>Nanotechnology</i> , 2010 , 21, 255704	3.4	48
4 ¹⁵	Investigation of the role of NaBH ₄ in the chemical synthesis of gold nanorods. <i>Journal of Nanoparticle Research</i> , 2010 , 12, 1777-1786	2.3	48
4 ¹⁴	Confining an Ag Core in an Ag Shell: A Four-Electron Superatom with Enhanced Photoluminescence upon Crystallization. <i>ACS Nano</i> , 2019 , 13, 5753-5759	16.7	47
4 ¹³	ZrO ₂ bubbles from core-shell nanoparticles. <i>Journal of Materials Chemistry</i> , 2003 , 13, 297-300		47
4 ¹²	[Au ₂₅ (SR) ₁₈] ₂ (2-): a noble metal cluster dimer in the gas phase. <i>Chemical Communications</i> , 2016 , 52, 8397-400	5.8	47
4 ¹¹	Polymorphism of Ag(BDT)(TPP) cluster: interactions of secondary ligands and their effect on solid state luminescence. <i>Nanoscale</i> , 2018 , 10, 9851-9855	7.7	46
4 ¹⁰	Dynamics of Alkyl Chains in Monolayer-Protected Au and Ag Clusters and Silver Thiolates: A Comprehensive Quasielastic Neutron Scattering Investigation. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 7012-7020	3.4	46
4 ⁰⁹	Melting of monolayer protected cluster superlattices. <i>Journal of Chemical Physics</i> , 2000 , 113, 9794-9803	3.9	46
4 ⁰⁸	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	3.8	45
4 ⁰⁷	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	8.3	45
4 ⁰⁶	Emergence of metallicity in silver clusters in the 150 atom regime: a study of differently sized silver clusters. <i>Nanoscale</i> , 2014 , 6, 8024-31	7.7	45
4 ⁰⁵	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	3.8	45
4 ⁰⁴	Tissue imprint imaging by desorption electrospray ionization mass spectrometry. <i>Analytical Methods</i> , 2011 , 3, 1910	3.2	44
4 ⁰³	Interaction of azide ion with hemin and cytochrome c immobilized on Au and Ag nanoparticles. <i>Langmuir</i> , 2005 , 21, 11896-902	4	44
4 ⁰²	Percolation network dynamicity and sheet dynamics governed viscous behavior of polydispersed graphene nanosheet suspensions. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	41

401	A thirty-fold photoluminescence enhancement induced by secondary ligands in monolayer protected silver clusters. <i>Nanoscale</i> , 2018 , 10, 20033-20042	7.7	40
400	Confined Metastable 2-Line Ferrihydrite for Affordable Point-of-Use Arsenic-Free Drinking Water. <i>Advanced Materials</i> , 2017 , 29, 1604260	24	39
399	Atomically Precise Silver Clusters as New SERS Substrates. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 2769-2773	6.4	39
398	Fluorescent Gold Nanoparticle Superlattices. <i>Advanced Materials</i> , 2008 , 20, 4719-4723	24	39
397	Chemical modification of fluorinated self-assembled monolayer surfaces by low energy reactive ion bombardment. <i>Journal of the American Society for Mass Spectrometry</i> , 1995 , 6, 187-94	3.5	39
396	Single-Cell Investigations of Silver Nanoparticle-Bacteria Interactions. <i>Particle and Particle Systems Characterization</i> , 2013 , 30, 1056-1062	3.1	38
395	Conversion of double layer charge-stabilized Ag@citrate colloids to thiol passivated luminescent quantum clusters. <i>Chemical Communications</i> , 2012 , 48, 859-61	5.8	38
394	Electric field enhancement and concomitant Raman spectral effects at the edges of a nanometre-thin gold mesotriangle. <i>Journal of Materials Chemistry</i> , 2010 , 20, 2108		38
393	Structure and dynamics of monolayers on planar and cluster surfaces. <i>Pure and Applied Chemistry</i> , 2002 , 74, 1593-1607	2.1	38
392	Atomically Precise Nanocluster Assemblies Encapsulating Plasmonic Gold Nanorods. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 6522-6526	16.4	37
391	Approaching sensitivity of tens of ions using atomically precise cluster-nanofiber composites. <i>Analytical Chemistry</i> , 2014 , 86, 10996-1001	7.8	37
390	Efficient red luminescence from organic-soluble Au ₂₅ clusters by ligand structure modification. <i>Nanoscale</i> , 2015 , 7, 14305-15	7.7	36
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