Paul A Mulvaney

List of Publications by Year
in descending order

318 papers	45,093 citations	1614 105 h-index	1934 207 g-index
336 all docs	336 docs citations	336 times ranked	42156 citing authors

#	Article	IF	Citations
1	Surface Plasmon Spectroscopy of Nanosized Metal Particles. Langmuir, 1996, 12, 788-800.	3.5	3,293
2	Gold nanorods: Synthesis, characterization and applications. Coordination Chemistry Reviews, 2005, 249, 1870-1901.	18.8	1,867
3	Calibration of rectangular atomic force microscope cantilevers. Review of Scientific Instruments, 1999, 70, 3967-3969.	1.3	1,833
4	Synthesis of Nanosized Goldâ^'Silica Coreâ^'Shell Particles. Langmuir, 1996, 12, 4329-4335.	3.5	1,766
5	Shape control in gold nanoparticle synthesis. Chemical Society Reviews, 2008, 37, 1783.	38.1	1,749
6	Modelling the optical response of gold nanoparticles. Chemical Society Reviews, 2008, 37, 1792.	38.1	1,072
7	Gold Nanoparticles: Past, Present, and Future. Langmuir, 2009, 25, 13840-13851.	3.5	1,000
8	Diverse Applications of Nanomedicine. ACS Nano, 2017, 11, 2313-2381.	14.6	976
9	Method for the calibration of atomic force microscope cantilevers. Review of Scientific Instruments, 1995, 66, 3789-3798.	1.3	879
10	Plasmon Coupling of Gold Nanorods at Short Distances and in Different Geometries. Nano Letters, 2009, 9, 1651-1658.	9.1	718
11	Effect of the Solution Refractive Index on the Color of Gold Colloids. Langmuir, 1994, 10, 3427-3430.	3.5	677
12	Preparation of ordered colloid monolayers by electrophoretic deposition. Langmuir, 1993, 9, 3408-3413.	3.5	616
13	Optical Properties of Thin Films of Au@SiO2Particles. Journal of Physical Chemistry B, 2001, 105, 3441-3452.	2.6	573
14	Quantum measurement and orientation tracking of fluorescent nanodiamonds inside living cells. Nature Nanotechnology, 2011, 6, 358-363.	31.5	552
15	Electric-Field-Directed Growth of Gold Nanorods in Aqueous Surfactant Solutions. Advanced Functional Materials, 2004, 14, 571-579.	14.9	540
16	Re-examination of the Size-Dependent Absorption Properties of CdSe Quantum Dots. Journal of Physical Chemistry C, 2009, 113, 19468-19474.	3.1	523
17	Fermi Level Equilibration in Quantum Dotâ^'Metal Nanojunctions. Journal of Physical Chemistry B, 2001, 105, 8810-8815.	2.6	517
18	Solvent Refractive Index and Core Charge Influences on the Surface Plasmon Absorbance of Alkanethiolate Monolayer-Protected Gold Clusters. Journal of Physical Chemistry B, 2000, 104, 564-570.	2.6	508

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19	The Effects of Chemisorption on the Luminescence of CdSe Quantum Dots. Langmuir, 2006, 22, 3007-3013.	3.5	467
20	Normal and torsional spring constants of atomic force microscope cantilevers. Review of Scientific Instruments, 2004, 75, 1988-1996.	1.3	455
21	Dark-field microscopy studies of single metal nanoparticles: understanding the factors that influence the linewidth of the localized surface plasmon resonance. Journal of Materials Chemistry, 2008, 18, 1949.	6.7	441
22	Direct observation of chemical reactions on single gold nanocrystals using surface plasmon spectroscopy. Nature Nanotechnology, 2008, 3, 598-602.	31.5	424
23	Controlled Method for Silica Coating of Silver Colloids. Influence of Coating on the Rate of Chemical Reactions. Langmuir, 1998, 14, 3740-3748.	3.5	415
24	Silica encapsulation of quantum dots and metal clusters. Journal of Materials Chemistry, 2000, 10, 1259-1270.	6.7	409
25	Nucleation and Growth Kinetics of CdSe Nanocrystals in Octadecene. Nano Letters, 2004, 4, 2303-2307.	9.1	356
26	From Cd-Rich to Se-Rich â^' the Manipulation of CdSe Nanocrystal Surface Stoichiometry. Journal of the American Chemical Society, 2007, 129, 2841-2848.	13.7	345
27	Spatially-Directed Oxidation of Gold Nanoparticles by Au(III)â^'CTAB Complexes. Journal of Physical Chemistry B, 2005, 109, 14257-14261.	2.6	321
28	Experimental validation of theoretical models for the frequency response of atomic force microscope cantilever beams immersed in fluids. Journal of Applied Physics, 2000, 87, 3978-3988.	2.5	302
29	Contributions from radiation damping and surface scattering to the linewidth of the longitudinal plasmon band of gold nanorods: a single particle study. Physical Chemistry Chemical Physics, 2006, 8, 3540.	2.8	293
30	On the temperature stability of gold nanorods: comparison between thermal and ultrafast laser-induced heating. Physical Chemistry Chemical Physics, 2006, 8, 814-821.	2.8	292
31	Direct observation of chemical reactions in silica-coated gold and silver nanoparticles. Advanced Materials, 1997, 9, 570-575.	21.0	291
32	Electrochemistry of multilayer colloids: preparation and absorption spectrum of gold-coated silver particles. The Journal of Physical Chemistry, 1993, 97, 7061-7064.	2.9	276
33	Long-lived nonmetallic silver clusters in aqueous solution: preparation and photolysis. Journal of the American Chemical Society, 1990, 112, 4657-4664.	13.7	269
34	The Assembly of Coated Nanocrystalsâ€. Journal of Physical Chemistry B, 2003, 107, 7312-7326.	2.6	269
35	Surface Plasmon Mediated Strong Excitonâ^'Photon Coupling in Semiconductor Nanocrystals. Nano Letters, 2010, 10, 274-278.	9.1	264
36	Gold nanorod extinction spectra. Journal of Applied Physics, 2006, 99, 123504.	2.5	262

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37	Polymerâ€Coated Nanoparticles: A Universal Tool for Biolabelling Experiments. Small, 2011, 7, 3113-3127.	10.0	261
38	Optical Control and Patterning of Gold-Nanorod-Poly(vinyl alcohol) Nanocomposite Films. Advanced Functional Materials, 2005, 15, 1065-1071.	14.9	254
39	Spectroelectrochemistry of Colloidal Silver. Langmuir, 1997, 13, 1773-1782.	3.5	251
40	Single Quantum Dots in Spherical Silica Particles. Angewandte Chemie - International Edition, 2004, 43, 5393-5396.	13.8	249
41	Scattering Curves of Ordered Mesoscopic Materials. Journal of Physical Chemistry B, 2005, 109, 1347-1360.	2.6	246
42	Electrochemical Charging of Single Gold Nanorods. Journal of the American Chemical Society, 2009, 131, 14664-14666.	13.7	244
43	Vibrational Response of Nanorods to Ultrafast Laser Induced Heating:Â Theoretical and Experimental Analysis. Journal of the American Chemical Society, 2003, 125, 14925-14933.	13.7	238
44	Surface chemistry of colloidal silver: surface plasmon damping by chemisorbed iodide, hydrosulfide (SH-), and phenylthiolate. The Journal of Physical Chemistry, 1993, 97, 679-682.	2.9	236
45	Spring constant calibration of atomic force microscope cantilevers of arbitrary shape. Review of Scientific Instruments, 2012, 83, 103705.	1.3	228
46	Phosphine-Free Synthesis of CdSe Nanocrystals. Journal of Physical Chemistry B, 2005, 109, 20665-20668.	2.6	225
47	A Solidâ€State Plasmonic Solar Cell via Metal Nanoparticle Selfâ€Assembly. Advanced Materials, 2012, 24, 4750-4755.	21.0	212
48	Study of Anion Adsorption at the Gold-Aqueous Solution Interface by Atomic Force Microscopy. Journal of the American Chemical Society, 1994, 116, 9150-9157.	13.7	211
49	The State of Nanoparticle-Based Nanoscience and Biotechnology: Progress, Promises, and Challenges. ACS Nano, 2012, 6, 8468-8483.	14.6	211
50	Distance and Wavelength Dependent Quenching of Molecular Fluorescence by Au@SiO₂ Coreâ€“Shell Nanoparticles. ACS Nano, 2013, 7, 6636-6648.	14.6	211
51	The Future of Layer-by-Layer Assembly: A Tribute to ACS Nano Associate Editor Helmuth MÃ¶hwald. ACS Nano, 2019, 13, 6151-6169.	14.6	211
52	NANOSTRUCTURE OF THE DIATOM FRUSTULE AS REVEALED BY ATOMIC FORCE AND SCANNING ELECTRON MICROSCOPY. Journal of Phycology, 2001, 37, 543-554.	2.3	209
53	Au@SnO2 Core-Shell Nanocapacitors. Advanced Materials, 2000, 12, 1519-1522.	21.0	205
54	Surface Plasmon Resonances in Strongly Coupled Gold Nanosphere Chains from Monomer to Hexamer. Nano Letters, 2011, 11, 4180-4187.	9.1	204

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55	Nucleation and Growth of CdSe Nanocrystals in a Binary Ligand System. Langmuir, 2005, 21, 10226-10233.	3.5	203
56	Gold Nanoparticle-Doped TiO₂Semiconductor Thin Films: Gas Sensing Properties. Advanced Functional Materials, 2008, 18, 3843-3849.	14.9	199
57	Size Effects in ZnO: The Cluster to Quantum Dot Transition. Australian Journal of Chemistry, 2003, 56, 1051.	0.9	193
58	Surface chemistry of colloidal silver in aqueous solution: observations on chemisorption and reactivity. The Journal of Physical Chemistry, 1991, 95, 7843-7846.	2.9	191
59	Chemistry of Ag n aggregates in aqueous solution: non-metallic oligomeric clusters and metallic particles. Faraday Discussions, 1991, 92, 31.	3.2	191
60	Plasmonic polymer nanocomposites. Nature Reviews Materials, 2018, 3, 375-391.	48.7	187
61	Sonoluminescence from Aqueous Alcohol and Surfactant Solutions. Journal of Physical Chemistry B, 1997, 101, 10845-10850.	2.6	183
62	Preparation of CdSe nanocrystals in a micro-flow-reactor. Chemical Communications, 2002, , 2844-2845.	4.1	180
63	Hot Carrier Extraction with Plasmonic Broadband Absorbers. ACS Nano, 2016, 10, 4704-4711.	14.6	174
64	The Preparation of Colloidally Stable, Water-Soluble, Biocompatible, Semiconductor Nanocrystals with a Small Hydrodynamic Diameter. ACS Nano, 2009, 3, 1121-1128.	14.6	171
65	Solution-Processed Sintered Nanocrystal Solar Cells via Layer-by-Layer Assembly. Nano Letters, 2011, 11, 2856-2864.	9.1	169
66	Gold nanoparticle thin films. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 202, 119-126.	4.7	168
67	Synthesis of Highly Luminescent and Photo-Stable, Graded Shell CdSe/Cd_xZn_{1â€“x}S Nanoparticles by In Situ Alloying. Chemistry of Materials, 2013, 25, 4731-4738.	6.7	167
68	Redox Catalysis Using Ag@SiO2Colloids. Journal of Physical Chemistry B, 1999, 103, 6770-6773.	2.6	161
69	Mapping the Optical Properties of CdSe/CdS Heterostructure Nanocrystals: The Effects of Core Size and Shell Thickness. Journal of the American Chemical Society, 2009, 131, 14299-14309.	13.7	159
70	Direct Measurement of Repulsive van der Waals Interactions Using an Atomic Force Microscope. Journal of Colloid and Interface Science, 1996, 180, 460-465.	9.4	158
71	The surface plasmon modes of self-assembled gold nanocrystals. Nature Communications, 2012, 3, 1275.	12.8	157
72	The Plasmonic Pixel: Large Area, Wide Gamut Color Reproduction Using Aluminum Nanostructures. Nano Letters, 2016, 16, 3817-3823.	9.1	154

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73	Laser Writing in Polarized Silver Nanorod Films. Advanced Materials, 2002, 14, 1000-1004.	21.0	152
74	Electro-optical shifts in silver nanoparticle films. Chemical Physics Letters, 2001, 349, 358-362.	2.6	150
75	Drastic Surface Plasmon Mode Shifts in Gold Nanorods Due to Electron Charging. Plasmonics, 2006, 1, 61-66.	3.4	150
76	Influence of Particleâ^'Substrate Interaction on Localized Plasmon Resonances. Nano Letters, 2010, 10, 2080-2086.	9.1	148
77	Two Mechanisms Determine Quantum Dot Blinking. ACS Nano, 2018, 12, 3397-3405.	14.6	148
78	Homogeneous silica coating of vitreophobic colloids. Chemical Communications, 1996, , 731-732.	4.1	146
79	From tunable core-shell nanoparticles to plasmonic drawbridges: Active control of nanoparticle optical properties. Science Advances, 2015, 1, e1500988.	10.3	146
80	Measurement of the forces between gold surfaces in water by atomic force microscopy. Journal of Chemical Physics, 1994, 100, 8501-8505.	3.0	145
81	Gold-Nanoparticle-Doped TiO2 Semiconductor Thin Films: Optical Characterization. Advanced Functional Materials, 2007, 17, 347-354.	14.9	143
82	Synthesis and electronic properties of semiconductor nanoparticles/quantum dots. Current Opinion in Colloid and Interface Science, 2000, 5, 168-172.	7.4	142
83	Influence of the Medium Refractive Index on the Optical Properties of Single Gold Triangular Prisms on a Substrate. Journal of Physical Chemistry C, 2008, 112, 3-7.	3.1	142
84	Inertial imaging with nanomechanical systems. Nature Nanotechnology, 2015, 10, 339-344.	31.5	141
85	Surface chemistry of colloidal gold: deposition of lead and accompanying optical effects. The Journal of Physical Chemistry, 1992, 96, 10419-10424.	2.9	131
86	Excitonâ^'Trion Transitions in Single CdSeâ€"CdS Coreâ€"Shell Nanocrystals. ACS Nano, 2009, 3, 2281-2287.	14.6	131
87	Layer-by-Layer Assembly of Sintered CdSe_xTe_{1â€"x} Nanocrystal Solar Cells. ACS Nano, 2012, 6, 5995-6004.	14.6	130
88	Not All That's Gold Does Glitter. MRS Bulletin, 2001, 26, 1009-1014.	3.5	128
89	Optical properties of single semiconductor nanocrystals. Physical Chemistry Chemical Physics, 2006, 8, 4989-5011.	2.8	127
90	The effect of surface roughness on the plasmonic response of individual sub-micron gold spheres. Physical Chemistry Chemical Physics, 2009, 11, 5909.	2.8	124

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91	All-inorganic quantum-dot light-emitting devices formed via low-cost, wet-chemical processing. Journal of Materials Chemistry, 2010, 20, 167-172.	6.7	124
92	Long-lived nonmetallic silver clusters in aqueous solution: a pulse radiolysis study of their formation. The Journal of Physical Chemistry, 1990, 94, 4182-4188.	2.9	123
93	Three-Dimensional Morphology and Crystallography of Gold Nanorods. Nano Letters, 2011, 11, 273-278.	9.1	123
94	Double-Layer Interactions between Self-Assembled Monolayers of Ï‰-Mercaptoundecanoic Acid on Gold Surfaces. Langmuir, 1998, 14, 3303-3311.	3.5	119
95	Comparative Study of the Magnetic Behavior of Spherical and Cubic Superparamagnetic Iron Oxide Nanoparticles. Journal of Physical Chemistry C, 2011, 115, 327-334.	3.1	119
96	Single-Photon Emission and Quantum Characterization of Zinc Oxide Defects. Nano Letters, 2012, 12, 949-954.	9.1	118
97	Enhancement of third-order nonlinear optical susceptibilities in silica-capped Au nanoparticle films with very high concentrations. Applied Physics Letters, 2004, 84, 4938-4940.	3.3	114
98	Optical properties of metal nanoparticle coated silica spheres: a simple effective medium approach. Physical Chemistry Chemical Physics, 2004, 6, 5056-5060.	2.8	114
99	Review of the Synthetic Chemistry Involved in the Production of Core/Shell Semiconductor Nanocrystals. Australian Journal of Chemistry, 2007, 60, 457.	0.9	114
100	A virtual instrument to standardise the calibration of atomic force microscope cantilevers. Review of Scientific Instruments, 2016, 87, 093711.	1.3	114
101	DNA-directed self-assembly and optical properties of discrete 1D, 2D and 3D plasmonic structures. Nano Today, 2013, 8, 138-167.	11.9	113
102	Detection of atomic spin labels in a lipid bilayer using a single-spin nanodiamond probe. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10894-10898.	7.1	113
103	Monitoring ion-channel function in real time through quantum decoherence. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18777-18782.	7.1	112
104	The Degradation and Blinking of Single CsPbI₃ Perovskite Quantum Dots. Journal of Physical Chemistry C, 2018, 122, 13407-13415.	3.1	111
105	THE STRUCTURE AND NANOMECHANICAL PROPERTIES OF THE ADHESIVE MUCILAGE THAT MEDIATES DIATOM-SUBSTRATUM ADHESION AND MOTILITY1. Journal of Phycology, 2003, 39, 1181-1193.	2.3	110
106	Colloidal Stability of Apolar Nanoparticles: The Role of Particle Size and Ligand Shell Structure. ACS Nano, 2018, 12, 5969-5977.	14.6	110
107	Surface Forces and Deformation at the Oilâ^'Water Interface Probed Using AFM Force Measurement. Langmuir, 1999, 15, 7282-7289.	3.5	109
108	Blinking and Surface Chemistry of Single CdSe Nanocrystals. Small, 2006, 2, 204-208.	10.0	108

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109	Synthesis of Tunable, Highly Luminescent QD-Glasses Through Sol-Gel Processing. Advanced Materials, 2001, 13, 985-988.	21.0	107
110	Characterization of the Adhesive Mucilages Secreted by Live Diatom Cells using Atomic Force Microscopy. Protist, 2002, 153, 25-38.	1.5	105
111	Plasmonic Hot Electron Solar Cells: The Effect of Nanoparticle Size on Quantum Efficiency. Journal of Physical Chemistry Letters, 2016, 7, 4137-4141.	4.6	105
112	Mapping Bright and Dark Modes in Gold Nanoparticle Chains using Electron Energy Loss Spectroscopy.. Nano Letters, 2014, 14, 3799-3808.	9.1	100
113	Reduction of Ag⁺ in Aqueous Polyanion Solution: Some Properties and Reactions of Longâ€Lived Oligomeric Silver Clusters and Metallic Silver Particles. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1990, 94, 1449-1457.	0.9	99
114	Colloidal Gold-Catalyzed Reduction of Ferrocyanate (III) by Borohydride Ions: A Model System for Redox Catalysis. Langmuir, 2010, 26, 1271-1277.	3.5	99
115	Composite Pd-Ag Particles in Aqueous Solution. The Journal of Physical Chemistry, 1994, 98, 6212-6215.	2.9	96
116	Experimental Determination of Quantum Dot Size Distributions, Ligand Packing Densities, and Bioconjugation Using Analytical Ultracentrifugation. Nano Letters, 2008, 8, 2883-2890.	9.1	95
117	Evolution of Colloidal Nanocrystals: Theory and Modeling of their Nucleation and Growth. Journal of Physical Chemistry C, 2009, 113, 16342-16355.	3.1	92
118	Tunable Whispering Gallery Mode Emission from Quantum-Dot-Doped Microspheres. Small, 2005, 1, 238-241.	10.0	91
119	Highly Efficient Amplified Stimulated Emission from CdSeâ€CdSâ€ZnS Quantum Dot Doped Waveguides with Twoâ€Photon Infrared Optical Pumping. Advanced Materials, 2008, 20, 69-73.	21.0	90
120	Characterisation of adhesional properties of lactose carriers using atomic force microscopy. Journal of Pharmaceutical and Biomedical Analysis, 2001, 25, 559-567.	2.8	88
121	Charge-Induced Rayleigh Instabilities In Small Gold Rods. Nano Letters, 2007, 7, 520-524.	9.1	88
122	Surface Plasmon Spectroscopy of Goldâ^'Poly-N-isopropylacrylamide Coreâ^'Shell Particles. Langmuir, 2011, 27, 820-827.	3.5	87
123	Conjugation of Transferrin to Azideâ€Modified CdSe/ZnS Coreâ€“Shell Quantum Dots using Cyclooctyne Click Chemistry. Angewandte Chemie - International Edition, 2012, 51, 10523-10527.	13.8	87
124	The Effect of pH on Multibubble Sonoluminescence from Aqueous Solutions Containing Simple Organic Weak Acids and Bases. Journal of the American Chemical Society, 1999, 121, 7355-7359.	13.7	85
125	Direct Assembly of Large Area Nanoparticle Arrays. ACS Nano, 2018, 12, 7529-7537.	14.6	84
126	Enhancing Quantum Dot LED Efficiency by Tuning Electron Mobility in the ZnO Electron Transport Layer. Advanced Materials Interfaces, 2016, 3, 1600868.	3.7	83

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127	Sonochemical dissolution of MnO2 colloids. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 2843.	1.7	82
128	PROBING THE SURFACE OF LIVING DIATOMS WITH ATOMIC FORCE MICROSCOPY: THE NANOSTRUCTURE AND NANOMECHANICAL PROPERTIES OF THE MUCILAGE LAYER1. Journal of Phycology, 2003, 39, 722-734.	2.3	81
129	The Effects of Electron and Hole Injection on the Photoluminescence of CdSe/CdS/ZnS Nanocrystal Monolayers. ACS Nano, 2008, 2, 669-676.	14.6	81
130	Control of Symmetry Breaking Size and Aspect Ratio in Gold Nanorods: Underlying Role of Silver Nitrate. Journal of Physical Chemistry C, 2017, 121, 3549-3559.	3.1	81
131	Scanning Nanospin Ensemble Microscope for Nanoscale Magnetic and Thermal Imaging. Nano Letters, 2016, 16, 326-333.	9.1	79
132	Luminescence and Amplified Stimulated Emission in CdSe-ZnS-Nanocrystal-Doped TiO2 and ZrO2 Waveguides. Advanced Functional Materials, 2007, 17, 1654-1662.	14.9	77
133	Characterization of Size, Anisotropy, and Density Heterogeneity of Nanoparticles by Sedimentation Velocity. Analytical Chemistry, 2014, 86, 7688-7695.	6.5	74
134	Selfâ€Assembly of Tunable Nanocrystal Superlattices Using Polyâ€(NIPAM) Spacers. Advanced Functional Materials, 2011, 21, 4668-4676.	14.9	73
135	Charge trapping in the reductive dissolution of colloidal suspensions of iron(III) oxides. Langmuir, 1988, 4, 1206-1211.	3.5	72
136	Determination of the Elastic Constants of Gold Nanorods Produced by Seed Mediated Growth. Nano Letters, 2004, 4, 2493-2497.	9.1	72
137	A Mechanism for Symmetry Breaking and Shape Control in Single-Crystal Gold Nanorods. Accounts of Chemical Research, 2017, 50, 2925-2935.	15.6	72
138	Silica-coated metals and semiconductors. Stabilization and nanostructuring. Pure and Applied Chemistry, 2000, 72, 257-267.	1.9	71
139	Acoustic Phonon Contributions to the Emission Spectrum of Single CdSe Nanocrystals. Journal of Physical Chemistry C, 2008, 112, 1878-1884.	3.1	71
140	Spectroscopy, Imaging, and Modeling of Individual Gold Decahedra. Journal of Physical Chemistry C, 2009, 113, 18623-18631.	3.1	71
141	Surface plasmon coupling in end-to-end linked gold nanorod dimers and trimers. Physical Chemistry Chemical Physics, 2013, 15, 4258.	2.8	70
142	Coherent Excitation of Vibrational Modes in Gold Nanorods. Journal of Physical Chemistry B, 2002, 106, 743-747.	2.6	69
143	Surface chemistry of colloidal silver: reduction of adsorbed cadmium(2+) ions and accompanying optical effects. The Journal of Physical Chemistry, 1992, 96, 2411-2414.	2.9	68
144	Three-photon excited band edge and trap emission of CdS semiconductor nanocrystals. Applied Physics Letters, 2004, 84, 4472-4474.	3.3	68

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145	General scaling law for stiffness measurement of small bodies with applications to the atomic force microscope. Journal of Applied Physics, 2005, 97, 124903.	2.5	68
146	Complete Quenching of CdSe Nanocrystal Photoluminescence by Single Dye Molecules. Advanced Materials, 2008, 20, 4274-4280.	21.0	67
147	Ultrasound-induced formation and dissolution of colloidal CdS. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 1791-1795.	1.7	66
148	Hydrogen Spillover between Single Gold Nanorods and Metal Oxide Supports: A Surface Plasmon Spectroscopy Study. ACS Nano, 2015, 9, 7846-7856.	14.6	65
149	Electron paramagnetic resonance microscopy using spins in diamond under ambient conditions. Nature Communications, 2017, 8, 458.	12.8	65
150	Cells as Factories for Humanized Encapsulation. Nano Letters, 2011, 11, 2152-2156.	9.1	64
151	Au@SiO2 colloids: effect of temperature on the surface plasmon absorption. New Journal of Chemistry, 1998, 22, 1285-1288.	2.8	61
152	Energy Transfer between Quantum Dots and Conjugated Dye Molecules. Journal of Physical Chemistry C, 2014, 118, 18079-18086.	3.1	61
153	Fermi level equilibration between colloidal lead and silver particles in aqueous solution. The Journal of Physical Chemistry, 1992, 96, 8700-8702.	2.9	58
154	Tunable infrared absorption by metal nanoparticles: The case for gold rods and shells. Gold Bulletin, 2008, 41, 5-14.	2.7	56
155	Spectroelectrochemistry of Silver Deposition on Single Gold Nanocrystals. Journal of Physical Chemistry Letters, 2014, 5, 4331-4335.	4.6	56
156	Filling schemes at submicron scale: Development of submicron sized plasmonic colour filters. Scientific Reports, 2014, 4, 6435.	3.3	55
157	Spontaneous Spectral Diffusion in CdSe Quantum Dots. Journal of Physical Chemistry Letters, 2012, 3, 1716-1720.	4.6	54
158	Phase Transfer of Noble Metal Nanoparticles to Organic Solvents. Langmuir, 2014, 30, 1932-1938.	3.5	54
159	Electronic Structure Engineering in ZnSe/CdS Type-II Nanoparticles by Interface Alloying. Journal of Physical Chemistry C, 2014, 118, 13276-13284.	3.1	54
160	Single Gold Nanorod Charge Modulation in an Ion Gel Device. Nano Letters, 2016, 16, 6863-6869.	9.1	54
161	Magneto-optical properties of trions in non-blinking charged nanocrystals reveal an acoustic phonon bottleneck. Nature Communications, 2012, 3, 1287.	12.8	53
162	An Electrochemical Model for Gold Colloid Formation via Citrate Reduction. Zeitschrift Fur Physikalische Chemie, 2007, 221, 415-426.	2.8	52

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163	Interaction of gold nanoparticles with thermoresponsive microgels: influence of the cross-linker density on optical properties. Physical Chemistry Chemical Physics, 2013, 15, 15623.	2.8	52
164	Spectroscopy and High-Resolution Microscopy of Single Nanocrystals by a Focused Ion Beam Registration Method. Angewandte Chemie - International Edition, 2007, 46, 3517-3520.	13.8	51
165	Dielectrophoresisâ€“Raman spectroscopy system for analysing suspended nanoparticles. Lab on A Chip, 2011, 11, 921.	6.0	51
166	Fabrication of Singleâ€Nanocrystal Arrays. Advanced Materials, 2020, 32, e1904551.	21.0	51
167	VARIATIONS IN THE SUBSTITUTED 3-LINKED MANNANS CLOSELY ASSOCIATED WITH THE SILICIFIED WALLS OF DIATOMS1. Journal of Phycology, 2005, 41, 1154-1161.	2.3	50
168	2D assembly of goldâ€“PNIPAM coreâ€“shell nanocrystals. Physical Chemistry Chemical Physics, 2011, 13, 5576.	2.8	50
169	Colloidal Stability of Apolar Nanoparticles: Role of Ligand Length. Langmuir, 2018, 34, 12982-12989.	3.5	50
170	Spectral diffusion of single semiconductor nanocrystals: The influence of the dielectric environment. Applied Physics Letters, 2006, 88, 154106.	3.3	49
171	Detection of Unlabeled Oligonucleotide Targets Using Whispering Gallery Modes in Single, Fluorescent Microspheres. Small, 2007, 3, 1408-1414.	10.0	49
172	Cooperative effect of Au and Pt inside TiO2 matrix for optical hydrogen detection at room temperature using surface plasmon spectroscopy. Nanoscale, 2012, 4, 5972.	5.6	49
173	Electron transfer in aqueous colloidal tin dioxide solutions. Langmuir, 1990, 6, 567-572.	3.5	48
174	Photochemistry of Colloidal Silver Particles: The Effects of N2O and Adsorbed CNâ˙. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1991, 95, 838-841.	0.9	48
175	Stability of Crystal Facets in Gold Nanorods. Nano Letters, 2015, 15, 1635-1641.	9.1	48
176	Redshift of surface plasmon modes of small gold rods due to their atomic roughness and end-cap geometry. Physical Review B, 2008, 77, .	3.2	47
177	Continuous Preparation of CdSe Nanocrystals by a Microreactor. Chemistry Letters, 2002, 31, 1072-1073.	1.3	46
178	Incorporation of a highly luminescent semiconductor quantum dot in ZrO2â€“SiO2hybrid solâ€“gel glass film. Journal of Materials Chemistry, 2004, 14, 1112-1116.	6.7	46
179	Superhydrophobic Effects of Self-Assembled Monolayers on Micropatterned Surfaces:Â 3-D Arrays Mimicking the Lotus Leaf. Langmuir, 2006, 22, 11072-11076.	3.5	46
180	Sol-Gel Based Vertical Optical Microcavities with Quantum Dot Defect Layers. Advanced Functional Materials, 2008, 18, 3772-3779.	14.9	45

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