

Paul A Mulvaney

List of Publications by Year in descending order

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318
papers

45,093
citations

1877

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times ranked

48185
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of a lanthanide nanoparticle-based contrast agent for microcomputed tomography of porous channels in subchondral bone. <i>Journal of Orthopaedic Research</i> , 2023, 41, 447-458.	1.2	5
2	The fuzzy sphere morphology is responsible for the increase in light scattering during the shrinkage of thermoresponsive microgels. <i>Soft Matter</i> , 2022, 18, 807-825.	1.2	9
3	Ultrafast imaging of terahertz electric waveforms using quantum dots. <i>Light: Science and Applications</i> , 2022, 11, 5.	7.7	21
4	Correlation between Spectroscopic and Mechanical Properties of Gold Nanocrystals under Pressure. <i>Journal of Physical Chemistry C</i> , 2022, 126, 1982-1990.	1.5	4
5	A versatile strategy for loading silica particles with dyes and quantum dots. <i>Colloids and Interface Science Communications</i> , 2022, 47, 100594.	2.0	3
6	Temperature-Jump Spectroscopy of Gold-Poly(<i>N</i> -isopropylacrylamide) Core-Shell Microgels. <i>Journal of Physical Chemistry C</i> , 2022, 126, 4118-4131.	1.5	4
7	Tanks and Truth. <i>ACS Nano</i> , 2022, 16, 4975-4976.	7.3	0
8	A General Method for Direct Assembly of Single Nanocrystals. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	4
9	Nanoscience and Entrepreneurship. <i>ACS Nano</i> , 2022, 16, 6943-6944.	7.3	2
10	Direct Assembly of Vertically Oriented, Gold Nanorod Arrays. <i>Advanced Functional Materials</i> , 2021, 31, 2006753.	7.8	32
11	Detection of Halomethanes Using Cesium Lead Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2021, 15, 1454-1464.	7.3	32
12	Spectroelectrochemistry of Colloidal CdSe Quantum Dots. <i>Chemistry of Materials</i> , 2021, 33, 1353-1362.	3.2	18
13	Growth of Gold Nanorods: A SAXS Study. <i>Journal of Physical Chemistry C</i> , 2021, 125, 19947-19960.	1.5	13
14	On the Stiffness of Gold at the Nanoscale. <i>ACS Nano</i> , 2021, 15, 19128-19137.	7.3	12
15	Advances in the Surface Functionalization of Nanodiamonds for Biological Applications: A Review. <i>ACS Applied Nano Materials</i> , 2021, 4, 9985-10005.	2.4	28
16	Fabrication of Single-Nanocrystal Arrays. <i>Advanced Materials</i> , 2020, 32, e1904551.	11.1	51
17	A Tunable Polymer-Metal Based Anti-Reflective Metasurface. <i>Macromolecular Rapid Communications</i> , 2020, 41, e1900415.	2.0	9
18	Concealed Structural Colors Uncovered by Light Scattering. <i>Advanced Optical Materials</i> , 2020, 8, 2001307.	3.6	4

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19	Tutorials and Articles on Best Practices. ACS Nano, 2020, 14, 10751-10753.	7.3	1
20	Surface Lattice Resonances in Self-Assembled Gold Nanoparticle Arrays: Impact of Lattice Period, Structural Disorder, and Refractive Index on Resonance Quality. Langmuir, 2020, 36, 13601-13612.	1.6	32
21	Singleâ€Nanocrystal Arrays: Fabrication of Singleâ€Nanocrystal Arrays (Adv. Mater. 18/2020). Advanced Materials, 2020, 32, 2070143.	11.1	1
22	A luminescent solar concentrator ray tracing simulator with a graphical user interface: features and applications. Methods and Applications in Fluorescence, 2020, 8, 037001.	1.1	13
23	Multilevel Spherical Photonic Crystals with Controllable Structures and Structureâ€Enhanced Functionalities. Advanced Optical Materials, 2020, 8, 1902164.	3.6	16
24	Plasmonic Sensing of Refractive Index and Density in Methanolâ€Ethanol Mixtures at High Pressure. Journal of Physical Chemistry C, 2020, 124, 8978-8983.	1.5	12
25	A PTFE helical capillary microreactor for the high throughput synthesis of monodisperse silica particles. Chemical Engineering Journal, 2020, 401, 126063.	6.6	15
26	When Like Destabilizes Like: Inverted Solvent Effects in Apolar Nanoparticle Dispersions. ACS Nano, 2020, 14, 5278-5287.	7.3	26
27	Growing Contributions of Nano in 2020. ACS Nano, 2020, 14, 16163-16164.	7.3	1
28	Melbourneâ€Australiaâ€™s Science City. ACS Nano, 2020, 14, 5153-5156.	7.3	0
29	An Optically Responsive Soft Etalon Based on Ultrathin Cellulose Hydrogels. Advanced Functional Materials, 2019, 29, 1904290.	7.8	30
30	Fabrication of a Three-Dimensional Plasmon Ruler Using an Atomic Force Microscope. Journal of Physical Chemistry C, 2019, 123, 19871-19878.	1.5	4
31	Transient overshoot and storage of charge carriers on ligands in quantum dot LEDs. Journal of Applied Physics, 2019, 126, .	1.1	20
32	High-Performance Large-Area Luminescence Solar Concentrator Incorporating a Donorâ€Emitter Fluorophore System. ACS Energy Letters, 2019, 4, 1839-1844.	8.8	42
33	Ligand memory effect in purple quantum dot LEDs. Applied Physics Letters, 2019, 115, 173505.	1.5	0
34	The Future of Layer-by-Layer Assembly: A Tribute to <i>ACS Nano</i> Associate Editor Helmuth MÃ¶hwald. ACS Nano, 2019, 13, 6151-6169.	7.3	211
35	Negative capacitance as a diagnostic tool for recombination in purple quantum dot LEDs. Journal of Applied Physics, 2019, 125, .	1.1	15
36	Silver Nanoparticle Gradient Arrays: Fluorescence Enhancement of Organic Dyes. Langmuir, 2019, 35, 8776-8783.	1.6	9

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37	Redefining the Experimental and Methods Sections. <i>ACS Nano</i> , 2019, 13, 4862-4864.	7.3	16
38	Aqueous Synthesis of Cu ₂ ZnSnSe ₄ Nanocrystals. <i>Chemistry of Materials</i> , 2019, 31, 2138-2150.	3.2	19
39	Monodisperse Gold Nanorods for High-Pressure Refractive Index Sensing. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1587-1593.	2.1	32
40	Effects of Hydrostatic Pressure on the Surface Plasmon Resonance of Gold Nanocrystals. <i>ACS Nano</i> , 2019, 13, 498-504.	7.3	22
41	Millisecond CdS nanocrystal nucleation and growth studied by microfluidics with in situ spectroscopy. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 562, 263-269.	2.3	12
42	Snapshot Hyperspectral Imaging (SHI) for Revealing Irreversible and Heterogeneous Plasmonic Processes. <i>Journal of Physical Chemistry C</i> , 2018, 122, 6865-6875.	1.5	25
43	Helmuth M \ddot{a} hwald (1946–2018). <i>ACS Nano</i> , 2018, 12, 3053-3055.	7.3	0
44	Coupled Plasmon Resonances and Gap Modes in Laterally Assembled Gold Nanorod Arrays. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018, 232, 1607-1617.	1.4	4
45	Aqueous Synthesis of High-Quality Cu ₂ ZnSnS ₄ Nanocrystals and Their Thermal Annealing Characteristics. <i>Langmuir</i> , 2018, 34, 1655-1665.	1.6	15
46	Tuning Single Quantum Dot Emission with a Micromirror. <i>Nano Letters</i> , 2018, 18, 1010-1017.	4.5	8
47	Two Mechanisms Determine Quantum Dot Blinking. <i>ACS Nano</i> , 2018, 12, 3397-3405.	7.3	148
48	Impact of Surface Functionalization on the Quantum Coherence of Nitrogen-Vacancy Centers in Nanodiamonds. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 13143-13149.	4.0	36
49	The Degradation and Blinking of Single CsPbI ₃ Perovskite Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13407-13415.	1.5	111
50	Colloidal Stability of Apolar Nanoparticles: Role of Ligand Length. <i>Langmuir</i> , 2018, 34, 12982-12989.	1.6	50
51	Sedimentation of C ₆₀ and C ₇₀ : Testing the Limits of Stokes' Law. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6345-6349.	2.1	7
52	Plasmonic polymer nanocomposites. <i>Nature Reviews Materials</i> , 2018, 3, 375-391.	23.3	187
53	Directed Chemical Assembly of Single and Clustered Nanoparticles with Silanized Templates. <i>Langmuir</i> , 2018, 34, 7355-7363.	1.6	23
54	Colloidal Stability of Apolar Nanoparticles: The Role of Particle Size and Ligand Shell Structure. <i>ACS Nano</i> , 2018, 12, 5969-5977.	7.3	110

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55	Direct Assembly of Large Area Nanoparticle Arrays. ACS Nano, 2018, 12, 7529-7537.	7.3	84
56	Towards Scalable Fabrication of Plasmonic Colour via Nanoimprint Lithography. , 2018, , .		0
57	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.	1.5	81
58	Nanoscience and Nanotechnology Cross Borders. ACS Nano, 2017, 11, 1123-1126.	7.3	4
59	Circular luminescent solar concentrators. Solar Energy, 2017, 150, 30-37.	2.9	23
60	Diverse Applications of Nanomedicine. ACS Nano, 2017, 11, 2313-2381.	7.3	976
61	Our First and Next Decades at ACS Nano. ACS Nano, 2017, 11, 7553-7555.	7.3	0
62	Electron paramagnetic resonance microscopy using spins in diamond under ambient conditions. Nature Communications, 2017, 8, 458.	5.8	65
63	A Mechanism for Symmetry Breaking and Shape Control in Single-Crystal Gold Nanorods. Accounts of Chemical Research, 2017, 50, 2925-2935.	7.6	72
64	A Big Year Ahead for Nano in 2018. ACS Nano, 2017, 11, 11755-11757.	7.3	1
65	Potential-Scanning Localized Plasmon Sensing with Single and Coupled Gold Nanorods. Journal of Physical Chemistry Letters, 2017, 8, 3637-3641.	2.1	36
66	A virtual instrument to standardise the calibration of atomic force microscope cantilevers. Review of Scientific Instruments, 2016, 87, 093711.	0.6	114
67	Nanoscience and Nanotechnology Impacting Diverse Fields of Science, Engineering, and Medicine. ACS Nano, 2016, 10, 10615-10617.	7.3	22
68	Shell effects on hole-coupled electron transfer dynamics from CdSe/CdS quantum dots to methyl viologen. Nanoscale, 2016, 8, 10380-10387.	2.8	23
69	The Plasmonic Pixel: Large Area, Wide Gamut Color Reproduction Using Aluminum Nanostructures. Nano Letters, 2016, 16, 3817-3823.	4.5	154
70	Plasmonic Hot Electron Solar Cells: The Effect of Nanoparticle Size on Quantum Efficiency. Journal of Physical Chemistry Letters, 2016, 7, 4137-4141.	2.1	105
71	Single Gold Nanorod Charge Modulation in an Ion Gel Device. Nano Letters, 2016, 16, 6863-6869.	4.5	54
72	Enhancing Quantum Dot LED Efficiency by Tuning Electron Mobility in the ZnO Electron Transport Layer. Advanced Materials Interfaces, 2016, 3, 1600868.	1.9	83

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73	Electron Energy Loss Spectroscopy Investigation into Symmetry in Gold Trimer and Tetramer Plasmonic Nanoparticle Structures. ACS Nano, 2016, 10, 8552-8563.	7.3	41
74	Have Nanoscience and Nanotechnology Delivered?. ACS Nano, 2016, 10, 7225-7226.	7.3	16
75	Standardizing Nanomaterials. ACS Nano, 2016, 10, 9763-9764.	7.3	40
76	In Situ 3D Imaging of Catalysis Induced Strain in Gold Nanoparticles. Journal of Physical Chemistry Letters, 2016, 7, 3008-3013.	2.1	32
77	Laser Flash Photolysis of Au-PNIPAM Core-Shell Nanoparticles: Dynamics of the Shell Response. Langmuir, 2016, 32, 12497-12503.	1.6	32
78	Hot Carrier Extraction with Plasmonic Broadband Absorbers. ACS Nano, 2016, 10, 4704-4711.	7.3	174
79	Nanometers to centimeters: novel optical nano-antennas, with an eye to scaled production. , 2016, , .		0
80	Scanning Nanospin Ensemble Microscope for Nanoscale Magnetic and Thermal Imaging. Nano Letters, 2016, 16, 326-333.	4.5	79
81	From tunable core-shell nanoparticles to plasmonic drawbridges: Active control of nanoparticle optical properties. Science Advances, 2015, 1, e1500988.	4.7	146
82	Surface plasmon spectroscopy study of electron exchange between single gold nanorods and metal oxide matrix during hydrogen gas sensing (Presentation Recording). , 2015, , .		0
83	Grand Plans for Nano. ACS Nano, 2015, 9, 11503-11505.	7.3	3
84	Transforming polarisation to wavelength via two-colour quantum dot plasmonic enhancement. Proceedings of SPIE, 2015, , .	0.8	0
85	Stability of Crystal Facets in Gold Nanorods. Nano Letters, 2015, 15, 1635-1641.	4.5	48
86	Repetitive Hole-Mask Colloidal Lithography for the Fabrication of Large-Area Low-Cost Plasmonic Multishape Single-Layer Metasurfaces. Advanced Optical Materials, 2015, 3, 680-686.	3.6	19
87	Plasmonic gold-poly(N-isopropylacrylamide) core-shell colloids with homogeneous density profiles: a small angle scattering study. Physical Chemistry Chemical Physics, 2015, 17, 1354-1367.	1.3	45
88	Hydrogen Spillover between Single Gold Nanorods and Metal Oxide Supports: A Surface Plasmon Spectroscopy Study. ACS Nano, 2015, 9, 7846-7856.	7.3	65
89	Emission enhancement and polarization of semiconductor quantum dots with nanoimprinted plasmonic cavities: towards scalable fabrication of plasmon-exciton displays. Nanoscale, 2015, 7, 13816-13821.	2.8	19
90	Determination of the Optical Constants of Gold Nanoparticles from Thin-Film Spectra. Journal of Physical Chemistry C, 2015, 119, 9450-9459.	1.5	14

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91	Nanoscience vs Nanotechnology—Defining the Field. ACS Nano, 2015, 9, 2215-2217.	7.3	44
92	Inertial imaging with nanomechanical systems. Nature Nanotechnology, 2015, 10, 339-344.	15.6	141
93	Effect of cantilever geometry on the optical lever sensitivities and thermal noise method of the atomic force microscope. Review of Scientific Instruments, 2014, 85, 113702.	0.6	36
94	Spectroelectrochemistry of Silver Deposition on Single Gold Nanocrystals. Journal of Physical Chemistry Letters, 2014, 5, 4331-4335.	2.1	56
95	A Year for Nanoscience. ACS Nano, 2014, 8, 11901-11903.	7.3	6
96	Tailoring the Exciton Fine Structure of Cadmium Selenide Nanocrystals with Shape Anisotropy and Magnetic Field. ACS Nano, 2014, 8, 11651-11656.	7.3	23
97	Concentrated aqueous synthesis of nanoparticles using comb-graft copolymer stabilisers: the effect of stabiliser architecture. RSC Advances, 2014, 4, 46876-46886.	1.7	6
98	Fano resonances in three-dimensional dual cut-wire pairs. Nanoscale, 2014, 6, 5372-5377.	2.8	16
99	Phase Transfer of Noble Metal Nanoparticles to Organic Solvents. Langmuir, 2014, 30, 1932-1938.	1.6	54
100	Dynamic Similarity of Oscillatory Flows Induced by Nanomechanical Resonators. Physical Review Letters, 2014, 112, 015501.	2.9	14
101	Ostwald ripening of comb polymer stabilised Ag salt nanoparticles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 459, 58-64.	2.3	19
102	Characterization of Size, Anisotropy, and Density Heterogeneity of Nanoparticles by Sedimentation Velocity. Analytical Chemistry, 2014, 86, 7688-7695.	3.2	74
103	Energy Transfer between Quantum Dots and Conjugated Dye Molecules. Journal of Physical Chemistry C, 2014, 118, 18079-18086.	1.5	61
104	The optical phonon spectrum of CdSe colloidal quantum dots. Physical Chemistry Chemical Physics, 2014, 16, 16957.	1.3	12
105	Synthesis of Highly Crystalline CdSe@ZnO Nanocrystals via Monolayer-by-Monolayer Epitaxial Shell Deposition. Chemistry of Materials, 2014, 26, 4274-4279.	3.2	24
106	Solution-processing of ultra-thin CdTe/ZnO nanocrystal solar cells. Thin Solid Films, 2014, 558, 365-373.	0.8	18
107	Mapping Bright and Dark Modes in Gold Nanoparticle Chains using Electron Energy Loss Spectroscopy. Nano Letters, 2014, 14, 3799-3808.	4.5	100
108	Concentrated synthesis of metal nanoparticles in water. RSC Advances, 2014, 4, 31914-31925.	1.7	16

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109	Electronic Structure Engineering in ZnSe/CdS Type-II Nanoparticles by Interface Alloying. Journal of Physical Chemistry C, 2014, 118, 13276-13284.	1.5	54
110	Filling schemes at submicron scale: Development of submicron sized plasmonic colour filters. Scientific Reports, 2014, 4, 6435.	1.6	55
111	Transparent metal electrodes from ordered nanosphere arrays. Journal of Applied Physics, 2013, 114, .	1.1	38
112	Interaction of gold nanoparticles with thermoresponsive microgels: influence of the cross-linker density on optical properties. Physical Chemistry Chemical Physics, 2013, 15, 15623.	1.3	52
113	Be Critical but Fair. ACS Nano, 2013, 7, 8313-8316.	7.3	5
114	Exciting Times for Nano. ACS Nano, 2013, 7, 10437-10439.	7.3	1
115	Synthesis of Highly Luminescent and Photo-Stable, Graded Shell CdSe/Cd _x Zn _{1-x} S Nanoparticles by In Situ Alloying. Chemistry of Materials, 2013, 25, 4731-4738.	3.2	167
116	Surface plasmon coupling in end-to-end linked gold nanorod dimers and trimers. Physical Chemistry Chemical Physics, 2013, 15, 4258.	1.3	70
117	Distance and Wavelength Dependent Quenching of Molecular Fluorescence by Au@SiO ₂ Core-Shell Nanoparticles. ACS Nano, 2013, 7, 6636-6648.	7.3	211
118	Aligned Linear Arrays of Crystalline Nanoparticles. Journal of Physical Chemistry Letters, 2013, 4, 1994-2001.	2.1	16
119	DNA-directed self-assembly and optical properties of discrete 1D, 2D and 3D plasmonic structures. Nano Today, 2013, 8, 138-167.	6.2	113
120	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.	3.3	113
121	The surface plasmon modes of self-assembled gold nanocrystals. Nature Communications, 2012, 3, 1275.	5.8	157
122	Defect-Mediated Energy Transfer between ZnO Nanocrystals and a Conjugated Dye. Journal of Physical Chemistry C, 2012, 116, 3305-3310.	1.5	44
123	The State of Nanoparticle-Based Nanoscience and Biotechnology: Progress, Promises, and Challenges. ACS Nano, 2012, 6, 8468-8483.	7.3	211
124	Conjugation of Transferrin to Azide-Modified CdSe/ZnS Core-Shell Quantum Dots using Cyclooctyne Click Chemistry. Angewandte Chemie - International Edition, 2012, 51, 10523-10527.	7.2	87
125	Spring constant calibration of atomic force microscope cantilevers of arbitrary shape. Review of Scientific Instruments, 2012, 83, 103705.	0.6	228
126	Magneto-optical properties of trions in non-blinking charged nanocrystals reveal an acoustic phonon bottleneck. Nature Communications, 2012, 3, 1287.	5.8	53

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127	Cooperative effect of Au and Pt inside TiO ₂ matrix for optical hydrogen detection at room temperature using surface plasmon spectroscopy. <i>Nanoscale</i> , 2012, 4, 5972.	2.8	49
128	Single-Photon Emission and Quantum Characterization of Zinc Oxide Defects. <i>Nano Letters</i> , 2012, 12, 949-954.	4.5	118
129	Spontaneous Spectral Diffusion in CdSe Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1716-1720.	2.1	54
130	Rapid Detection of Hendra Virus Using Magnetic Particles and Quantum Dots. <i>Advanced Healthcare Materials</i> , 2012, 1, 631-634.	3.9	18
131	A Solid-State Plasmonic Solar Cell via Metal Nanoparticle Self-Assembly. <i>Advanced Materials</i> , 2012, 24, 4750-4755.	11.1	212
132	Layer-by-Layer Assembly of Sintered CdSe _x Te _{1-x} Nanocrystal Solar Cells. <i>ACS Nano</i> , 2012, 6, 5995-6004.	7.3	130
133	Dielectrophoresis-Raman spectroscopy system for analysing suspended nanoparticles. <i>Lab on A Chip</i> , 2011, 11, 921.	3.1	51
134	2D assembly of gold-PNIPAM core-shell nanocrystals. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 5576.	1.3	50
135	Surface Plasmon Spectroscopy of Gold-Poly-N-isopropylacrylamide Core-Shell Particles. <i>Langmuir</i> , 2011, 27, 820-827.	1.6	87
136	Coupling modes of gold trimer superstructures. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 3472-3482.	1.6	24
137	Three-Dimensional Morphology and Crystallography of Gold Nanorods. <i>Nano Letters</i> , 2011, 11, 273-278.	4.5	123
138	Effect of Defects on the Behavior of ZnO Nanoparticle FETs. <i>Journal of Physical Chemistry C</i> , 2011, 115, 8312-8315.	1.5	28
139	Surface Plasmon Resonances in Strongly Coupled Gold Nanosphere Chains from Monomer to Hexamer. <i>Nano Letters</i> , 2011, 11, 4180-4187.	4.5	204
140	Solution-Processed Sintered Nanocrystal Solar Cells via Layer-by-Layer Assembly. <i>Nano Letters</i> , 2011, 11, 2856-2864.	4.5	169
141	Cells as Factories for Humanized Encapsulation. <i>Nano Letters</i> , 2011, 11, 2152-2156.	4.5	64
142	Quantum measurement and orientation tracking of fluorescent nanodiamonds inside living cells. <i>Nature Nanotechnology</i> , 2011, 6, 358-363.	15.6	552
143	Comparative Study of the Magnetic Behavior of Spherical and Cubic Superparamagnetic Iron Oxide Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011, 115, 327-334.	1.5	119
144	Polymer-Coated Nanoparticles: A Universal Tool for Biolabelling Experiments. <i>Small</i> , 2011, 7, 3113-3127.	5.2	261

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145	Self-Assembly of Tunable Nanocrystal Superlattices Using Poly(NIPAM) Spacers. <i>Advanced Functional Materials</i> , 2011, 21, 4668-4676.	7.8	73
146	Synthesis of quantum dot doped chalcogenide glasses via sol-gel processing. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	29
147	Using Hydrogels to Accommodate Hydrophobic Nanoparticles in Aqueous Media via Solvent Exchange. <i>Advanced Materials</i> , 2010, 22, 3247-3250.	11.1	35
148	Monitoring ion-channel function in real time through quantum decoherence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 18777-18782.	3.3	112
149	Lubrication forces in air and accommodation coefficient measured by a thermal damping method using an atomic force microscope. <i>Physical Review E</i> , 2010, 81, 056305.	0.8	22
150	Fabrication of ZnO Thin Films from Nanocrystal Inks. <i>Journal of Physical Chemistry C</i> , 2010, 114, 19815-19821.	1.5	26
151	Anomalous Power Laws of Spectral Diffusion in Quantum Dots: A Connection to Luminescence Intermittency. <i>Physical Review Letters</i> , 2010, 105, 167402.	2.9	34
152	All-inorganic quantum-dot light-emitting devices formed via low-cost, wet-chemical processing. <i>Journal of Materials Chemistry</i> , 2010, 20, 167-172.	6.7	124
153	Charge hopping revealed by jitter correlations in the photoluminescence spectra of single CdSe nanocrystals. <i>Physical Review B</i> , 2010, 81, .	1.1	24
154	Surface Plasmon Mediated Strong Exciton-Photon Coupling in Semiconductor Nanocrystals. <i>Nano Letters</i> , 2010, 10, 274-278.	4.5	264
155	Influence of Particle-Substrate Interaction on Localized Plasmon Resonances. <i>Nano Letters</i> , 2010, 10, 2080-2086.	4.5	148
156	Colloidal Gold-Catalyzed Reduction of Ferrocyanate (III) by Borohydride Ions: A Model System for Redox Catalysis. <i>Langmuir</i> , 2010, 26, 1271-1277.	1.6	99
157	Electrodynamic ratchet motor. <i>Physical Review E</i> , 2009, 79, 030105.	0.8	1
158	Hydrogen-Bond-Selective Phase Transfer of Nanoparticles across Liquid/Gel Interfaces. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4953-4956.	7.2	39
159	Plasmon Coupling of Gold Nanorods at Short Distances and in Different Geometries. <i>Nano Letters</i> , 2009, 9, 1651-1658.	4.5	718
160	Exciton-Trion Transitions in Single CdSe-CdS Core-Shell Nanocrystals. <i>ACS Nano</i> , 2009, 3, 2281-2287.	7.3	131
161	Gold Nanoparticles: Past, Present, and Future. <i>Langmuir</i> , 2009, 25, 13840-13851.	1.6	1,000
162	Re-examination of the Size-Dependent Absorption Properties of CdSe Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2009, 113, 19468-19474.	1.5	523

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163	Evolution of Colloidal Nanocrystals: Theory and Modeling of their Nucleation and Growth. Journal of Physical Chemistry C, 2009, 113, 16342-16355.	1.5	92
164	High-Resolution Line Width Measurement of Single CdSe Nanocrystals at Long Time Scales. Journal of Physical Chemistry C, 2009, 113, 5345-5348.	1.5	10
165	Self-assembled gold nanoparticle monolayers in sol-gel matrices: synthesis and gas sensing applications. Journal of Materials Chemistry, 2009, 19, 2051.	6.7	44
166	The Preparation of Colloidally Stable, Water-Soluble, Biocompatible, Semiconductor Nanocrystals with a Small Hydrodynamic Diameter. ACS Nano, 2009, 3, 1121-1128.	7.3	171
167	Combinatorial Discovery of Novel Amphiphilic Polymers for the Phase Transfer of Magnetic Nanoparticles. Journal of Physical Chemistry C, 2009, 113, 16615-16624.	1.5	25
168	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.	6.6	159
169	Spectroscopy, Imaging, and Modeling of Individual Gold Decahedra. Journal of Physical Chemistry C, 2009, 113, 18623-18631.	1.5	71
170	Electrochemical Charging of Single Gold Nanorods. Journal of the American Chemical Society, 2009, 131, 14664-14666.	6.6	244
171	The effect of surface roughness on the plasmonic response of individual sub-micron gold spheres. Physical Chemistry Chemical Physics, 2009, 11, 5909.	1.3	124
172	Tunable infrared absorption by metal nanoparticles: The case for gold rods and shells. Gold Bulletin, 2008, 41, 5-14.	3.2	56
173	Sol-Gel Based Vertical Optical Microcavities with Quantum Dot Defect Layers. Advanced Functional Materials, 2008, 18, 3772-3779.	7.8	45
174	Gold Nanoparticle-Doped TiO ₂ Semiconductor Thin Films: Gas Sensing Properties. Advanced Functional Materials, 2008, 18, 3843-3849.	7.8	199
175	Frontiers in Nanomaterials. Advanced Functional Materials, 2008, 18, 3743-3744.	7.8	1
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