

Paul A Mulvaney

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

295 papers	39,380 citations	100 h-index	195 g-index
336 ext. papers	42,335 ext. citations	9.4 avg, IF	7.57 L-index

#	Paper	IF	Citations
295	Ultrafast imaging of terahertz electric waveforms using quantum dots.. <i>Light: Science and Applications</i> , 2022 , 11, 5	16.7	3
294	Correlation between Spectroscopic and Mechanical Properties of Gold Nanocrystals under Pressure. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 1982-1990	3.8	1
293	A versatile strategy for loading silica particles with dyes and quantum dots. <i>Colloids and Interface Science Communications</i> , 2022 , 47, 100594	5.4	0
292	Temperature-Jump Spectroscopy of GoldPoly(N-isopropylacrylamide) CoreShell Microgels. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 4118-4131	3.8	1
291	The fuzzy sphere morphology is responsible for the increase in light scattering during the shrinkage of thermoresponsive microgels.. <i>Soft Matter</i> , 2021 ,	3.6	3
290	On the Stiffness of Gold at the Nanoscale. <i>ACS Nano</i> , 2021 ,	16.7	2
289	Advances in the Surface Functionalization of Nanodiamonds for Biological Applications: A Review. <i>ACS Applied Nano Materials</i> , 2021 , 4, 9985-10005	5.6	6
288	Direct Assembly of Vertically Oriented, Gold Nanorod Arrays. <i>Advanced Functional Materials</i> , 2021 , 31, 2006753	15.6	14
287	Detection of Halomethanes Using Cesium Lead Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2021 , 15, 145461-14648	15.6	14
286	Spectroelectrochemistry of Colloidal CdSe Quantum Dots. <i>Chemistry of Materials</i> , 2021 , 33, 1353-1362	9.6	9
285	Growth of Gold Nanorods: A SAXS Study. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 19947-19960	3.8	3
284	Surface Lattice Resonances in Self-Assembled Gold Nanoparticle Arrays: Impact of Lattice Period, Structural Disorder, and Refractive Index on Resonance Quality. <i>Langmuir</i> , 2020 , 36, 13601-13612	4	12
283	Single-Nanocrystal Arrays: Fabrication of Single-Nanocrystal Arrays (Adv. Mater. 18/2020). <i>Advanced Materials</i> , 2020 , 32, 2070143	24	1
282	A luminescent solar concentrator ray tracing simulator with a graphical user interface: features and applications. <i>Methods and Applications in Fluorescence</i> , 2020 , 8, 037001	3.1	6
281	Multilevel Spherical Photonic Crystals with Controllable Structures and Structure-Enhanced Functionalities. <i>Advanced Optical Materials</i> , 2020 , 8, 1902164	8.1	9
280	Plasmonic Sensing of Refractive Index and Density in MethanolEthanol Mixtures at High Pressure. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 8978-8983	3.8	7
279	A PTFE helical capillary microreactor for the high throughput synthesis of monodisperse silica particles. <i>Chemical Engineering Journal</i> , 2020 , 401, 126063	14.7	8

278	A Tunable Polymer-Metal Based Anti-Reflective Metasurface. <i>Macromolecular Rapid Communications</i> , 2020 , 41, e1900415	4.8	6
277	Concealed Structural Colors Uncovered by Light Scattering. <i>Advanced Optical Materials</i> , 2020 , 8, 2001308	8.1	2
276	Fabrication of Single-Nanocrystal Arrays. <i>Advanced Materials</i> , 2020 , 32, e1904551	24	31
275	When Like Destabilizes Like: Inverted Solvent Effects in Apolar Nanoparticle Dispersions. <i>ACS Nano</i> , 2020 , 14, 5278-5287	16.7	12
274	Ligand memory effect in purple quantum dot LEDs. <i>Applied Physics Letters</i> , 2019 , 115, 173505	3.4	
273	The Future of Layer-by-Layer Assembly: A Tribute to ACS Nano Associate Editor Helmuth Möwald. <i>ACS Nano</i> , 2019 , 13, 6151-6169	16.7	127
272	Negative capacitance as a diagnostic tool for recombination in purple quantum dot LEDs. <i>Journal of Applied Physics</i> , 2019 , 125, 195501	2.5	9
271	Silver Nanoparticle Gradient Arrays: Fluorescence Enhancement of Organic Dyes. <i>Langmuir</i> , 2019 , 35, 8776-8783	4	3
270	Aqueous Synthesis of Cu ₂ ZnSnSe ₄ Nanocrystals. <i>Chemistry of Materials</i> , 2019 , 31, 2138-2150	9.6	11
269	Monodisperse Gold Nanorods for High-Pressure Refractive Index Sensing. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 1587-1593	6.4	23
268	An Optically Responsive Soft Etalon Based on Ultrathin Cellulose Hydrogels. <i>Advanced Functional Materials</i> , 2019 , 29, 1904290	15.6	20
267	Fabrication of a Three-Dimensional Plasmon Ruler Using an Atomic Force Microscope. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 19871-19878	3.8	2
266	Transient overshoot and storage of charge carriers on ligands in quantum dot LEDs. <i>Journal of Applied Physics</i> , 2019 , 126, 075501	2.5	12
265	High-Performance Large-Area Luminescence Solar Concentrator Incorporating a Donor-Emitter Fluorophore System. <i>ACS Energy Letters</i> , 2019 , 4, 1839-1844	20.1	21
264	Effects of Hydrostatic Pressure on the Surface Plasmon Resonance of Gold Nanocrystals. <i>ACS Nano</i> , 2019 , 13, 498-504	16.7	15
263	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	5.1	9
262	Snapshot Hyperspectral Imaging (SHI) for Revealing Irreversible and Heterogeneous Plasmonic Processes. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 6865-6875	3.8	19
261	Coupled Plasmon Resonances and Gap Modes in Laterally Assembled Gold Nanorod Arrays. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018 , 232, 1607-1617	3.1	4

260	Aqueous Synthesis of High-Quality CuZnSnS Nanocrystals and Their Thermal Annealing Characteristics. <i>Langmuir</i> , 2018 , 34, 1655-1665	4	13
259	Tuning Single Quantum Dot Emission with a Micromirror. <i>Nano Letters</i> , 2018 , 18, 1010-1017	11.5	3
258	Two Mechanisms Determine Quantum Dot Blinking. <i>ACS Nano</i> , 2018 , 12, 3397-3405	16.7	93
257	Impact of Surface Functionalization on the Quantum Coherence of Nitrogen-Vacancy Centers in Nanodiamonds. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 13143-13149	9.5	29
256	Direct Assembly of Large Area Nanoparticle Arrays. <i>ACS Nano</i> , 2018 , 12, 7529-7537	16.7	58
255	The Degradation and Blinking of Single CsPbI ₃ Perovskite Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 13407-13415	3.8	76
254	Colloidal Stability of Apolar Nanoparticles: Role of Ligand Length. <i>Langmuir</i> , 2018 , 34, 12982-12989	4	26
253	Sedimentation of C and C: Testing the Limits of Stokes' Law. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 6345-6349	6.4	3
252	Plasmonic polymer nanocomposites. <i>Nature Reviews Materials</i> , 2018 , 3, 375-391	73.3	117
251	Directed Chemical Assembly of Single and Clustered Nanoparticles with Silanized Templates. <i>Langmuir</i> , 2018 , 34, 7355-7363	4	20
250	Colloidal Stability of Apolar Nanoparticles: The Role of Particle Size and Ligand Shell Structure. <i>ACS Nano</i> , 2018 , 12, 5969-5977	16.7	66
249	Control of Symmetry Breaking Size and Aspect Ratio in Gold Nanorods: Underlying Role of Silver Nitrate. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 3549-3559	3.8	60
248	Nanoscience and Nanotechnology Cross Borders. <i>ACS Nano</i> , 2017 , 11, 1123-1126	16.7	3
247	Circular luminescent solar concentrators. <i>Solar Energy</i> , 2017 , 150, 30-37	6.8	19
246	Diverse Applications of Nanomedicine. <i>ACS Nano</i> , 2017 , 11, 2313-2381	16.7	714
245	Electron paramagnetic resonance microscopy using spins in diamond under ambient conditions. <i>Nature Communications</i> , 2017 , 8, 458	17.4	44
244	A Mechanism for Symmetry Breaking and Shape Control in Single-Crystal Gold Nanorods. <i>Accounts of Chemical Research</i> , 2017 , 50, 2925-2935	24.3	44
243	Potential-Scanning Localized Plasmon Sensing with Single and Coupled Gold Nanorods. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3637-3641	6.4	35

242	In Situ 3D Imaging of Catalysis Induced Strain in Gold Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 3008-13	6.4	23
241	Laser Flash Photolysis of Au-PNIPAM Core-Shell Nanoparticles: Dynamics of the Shell Response. <i>Langmuir</i> , 2016 , 32, 12497-12503	4	29
240	Hot Carrier Extraction with Plasmonic Broadband Absorbers. <i>ACS Nano</i> , 2016 , 10, 4704-11	16.7	136
239	Scanning Nanospin Ensemble Microscope for Nanoscale Magnetic and Thermal Imaging. <i>Nano Letters</i> , 2016 , 16, 326-33	11.5	65
238	A virtual instrument to standardise the calibration of atomic force microscope cantilevers. <i>Review of Scientific Instruments</i> , 2016 , 87, 093711	1.7	73
237	Shell effects on hole-coupled electron transfer dynamics from CdSe/CdS quantum dots to methyl viologen. <i>Nanoscale</i> , 2016 , 8, 10380-7	7.7	21
236	The Plasmonic Pixel: Large Area, Wide Gamut Color Reproduction Using Aluminum Nanostructures. <i>Nano Letters</i> , 2016 , 16, 3817-23	11.5	123
235	Plasmonic Hot Electron Solar Cells: The Effect of Nanoparticle Size on Quantum Efficiency. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 4137-4141	6.4	90
234	Single Gold Nanorod Charge Modulation in an Ion Gel Device. <i>Nano Letters</i> , 2016 , 16, 6863-6869	11.5	43
233	Enhancing Quantum Dot LED Efficiency by Tuning Electron Mobility in the ZnO Electron Transport Layer. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600868	4.6	58
232	Electron Energy Loss Spectroscopy Investigation into Symmetry in Gold Trimer and Tetramer Plasmonic Nanoparticle Structures. <i>ACS Nano</i> , 2016 , 10, 8552-63	16.7	31
231	Plasmonic gold-poly(N-isopropylacrylamide) core-shell colloids with homogeneous density profiles: a small angle scattering study. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 1354-67	3.6	42
230	Hydrogen Spillover between Single Gold Nanorods and Metal Oxide Supports: A Surface Plasmon Spectroscopy Study. <i>ACS Nano</i> , 2015 , 9, 7846-56	16.7	54
229	Emission enhancement and polarization of semiconductor quantum dots with nanoimprinted plasmonic cavities: towards scalable fabrication of plasmon-exciton displays. <i>Nanoscale</i> , 2015 , 7, 13816-21	17	11
228	Determination of the Optical Constants of Gold Nanoparticles from Thin-Film Spectra. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 9450-9459	3.8	10
227	Inertial imaging with nanomechanical systems. <i>Nature Nanotechnology</i> , 2015 , 10, 339-44	28.7	102
226	Nanocrystals, Layer-by-Layer Assembly, and Photovoltaic Devices 2015 , 357-394		3
225	From tunable core-shell nanoparticles to plasmonic drawbridges: Active control of nanoparticle optical properties. <i>Science Advances</i> , 2015 , 1, e1500988	14.3	127

224	Stability of crystal facets in gold nanorods. <i>Nano Letters</i> , 2015 , 15, 1635-41	11.5	45
223	Repetitive Hole-Mask Colloidal Lithography for the Fabrication of Large-Area Low-Cost Plasmonic Multishape Single-Layer Metasurfaces. <i>Advanced Optical Materials</i> , 2015 , 3, 680-686	8.1	14
222	Tailoring the exciton fine structure of cadmium selenide nanocrystals with shape anisotropy and magnetic field. <i>ACS Nano</i> , 2014 , 8, 11651-6	16.7	15
221	Concentrated aqueous synthesis of nanoparticles using comb-graft copolymer stabilisers: the effect of stabiliser architecture. <i>RSC Advances</i> , 2014 , 4, 46876-46886	3.7	3
220	Fano resonances in three-dimensional dual cut-wire pairs. <i>Nanoscale</i> , 2014 , 6, 5372-7	7.7	15
219	Phase transfer of noble metal nanoparticles to organic solvents. <i>Langmuir</i> , 2014 , 30, 1932-8	4	49
218	Dynamic similarity of oscillatory flows induced by nanomechanical resonators. <i>Physical Review Letters</i> , 2014 , 112, 015501	7.4	13
217	Ostwald ripening of comb polymer stabilised Ag salt nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 459, 58-64	5.1	17
216	Characterization of size, anisotropy, and density heterogeneity of nanoparticles by sedimentation velocity. <i>Analytical Chemistry</i> , 2014 , 86, 7688-95	7.8	63
215	Energy Transfer between Quantum Dots and Conjugated Dye Molecules. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 18079-18086	3.8	47
214	The optical phonon spectrum of CdSe colloidal quantum dots. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 16957-61	3.6	6
213	Synthesis of Highly Crystalline [email[protected]] Nanocrystals via Monolayer-by-Monolayer Epitaxial Shell Deposition. <i>Chemistry of Materials</i> , 2014 , 26, 4274-4279	9.6	21
212	Solution-processing of ultra-thin CdTe/ZnO nanocrystal solar cells. <i>Thin Solid Films</i> , 2014 , 558, 365-373	2.2	16
211	Mapping bright and dark modes in gold nanoparticle chains using electron energy loss spectroscopy. <i>Nano Letters</i> , 2014 , 14, 3799-808	11.5	86
210	Concentrated synthesis of metal nanoparticles in water. <i>RSC Advances</i> , 2014 , 4, 31914-31925	3.7	11
209	Electronic Structure Engineering in ZnSe/CdS Type-II Nanoparticles by Interface Alloying. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 13276-13284	3.8	50
208	Filling schemes at submicron scale: development of submicron sized plasmonic colour filters. <i>Scientific Reports</i> , 2014 , 4, 6435	4.9	44
207	Effect of cantilever geometry on the optical lever sensitivities and thermal noise method of the atomic force microscope. <i>Review of Scientific Instruments</i> , 2014 , 85, 113702	1.7	27

206	Spectroelectrochemistry of Silver Deposition on Single Gold Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 4331-5	6.4	48
205	Transparent metal electrodes from ordered nanosphere arrays. <i>Journal of Applied Physics</i> , 2013 , 114, 054502	2.5	34
204	Interaction of gold nanoparticles with thermoresponsive microgels: influence of the cross-linker density on optical properties. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 15623-31	3.6	44
203	Synthesis of Highly Luminescent and Photo-Stable, Graded Shell CdSe/CdxZn1-xS Nanoparticles by In Situ Alloying. <i>Chemistry of Materials</i> , 2013 , 25, 4731-4738	9.6	135
202	Surface plasmon coupling in end-to-end linked gold nanorod dimers and trimers. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 4258-64	3.6	61
201	Distance and wavelength dependent quenching of molecular fluorescence by Au@SiO2 core-shell nanoparticles. <i>ACS Nano</i> , 2013 , 7, 6636-48	16.7	181
200	Aligned Linear Arrays of Crystalline Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 1994-2001	10.1	16
199	DNA-directed self-assembly and optical properties of discrete 1D, 2D and 3D plasmonic structures. <i>Nano Today</i> , 2013 , 8, 138-167	17.9	103
198	Detection of atomic spin labels in a lipid bilayer using a single-spin nanodiamond probe. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 10894-8	11.5	89
197	The surface plasmon modes of self-assembled gold nanocrystals. <i>Nature Communications</i> , 2012 , 3, 1275	17.4	144
196	Defect-Mediated Energy Transfer between ZnO Nanocrystals and a Conjugated Dye. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 3305-3310	3.8	35
195	The state of nanoparticle-based nanoscience and biotechnology: progress, promises, and challenges. <i>ACS Nano</i> , 2012 , 6, 8468-83	16.7	188
194	Conjugation of Transferrin to Azide-Modified CdSe/ZnS Core-Shell Quantum Dots using Cyclooctyne Click Chemistry. <i>Angewandte Chemie</i> , 2012 , 124, 10675-10679	3.6	6
193	Conjugation of transferrin to azide-modified CdSe/ZnS core-shell quantum dots using cyclooctyne click chemistry. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 10523-7	16.4	80
192	Spring constant calibration of atomic force microscope cantilevers of arbitrary shape. <i>Review of Scientific Instruments</i> , 2012 , 83, 103705	1.7	167
191	Magneto-optical properties of trions in non-blinking charged nanocrystals reveal an acoustic phonon bottleneck. <i>Nature Communications</i> , 2012 , 3, 1287	17.4	45
190	Cooperative effect of Au and Pt inside TiO2 matrix for optical hydrogen detection at room temperature using surface plasmon spectroscopy. <i>Nanoscale</i> , 2012 , 4, 5972-9	7.7	47
189	Single-photon emission and quantum characterization of zinc oxide defects. <i>Nano Letters</i> , 2012 , 12, 949-545	14.5	100

188	Spontaneous Spectral Diffusion in CdSe Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 1716-20	6.4	45
187	Rapid detection of hendra virus using magnetic particles and quantum dots. <i>Advanced Healthcare Materials</i> , 2012 , 1, 631-4	10.1	15
186	A solid-state plasmonic solar cell via metal nanoparticle self-assembly. <i>Advanced Materials</i> , 2012 , 24, 4750-5, 4729	24	200
185	Layer-by-layer assembly of sintered CdSe(x)Te1-x nanocrystal solar cells. <i>ACS Nano</i> , 2012 , 6, 5995-6004	16.7	114
184	Surface plasmon spectroscopy of gold-poly-N-isopropylacrylamide core-shell particles. <i>Langmuir</i> , 2011 , 27, 820-7	4	78
183	Coupling modes of gold trimer superstructures. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011 , 369, 3472-82	3	24
182	Three-dimensional morphology and crystallography of gold nanorods. <i>Nano Letters</i> , 2011 , 11, 273-8	11.5	113
181	Effect of Defects on the Behavior of ZnO Nanoparticle FETs. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 8312-8315	3.8	25
180	Surface plasmon resonances in strongly coupled gold nanosphere chains from monomer to hexamer. <i>Nano Letters</i> , 2011 , 11, 4180-7	11.5	185
179	Solution-processed sintered nanocrystal solar cells via layer-by-layer assembly. <i>Nano Letters</i> , 2011 , 11, 2856-64	11.5	149
178	Cells as factories for humanized encapsulation. <i>Nano Letters</i> , 2011 , 11, 2152-6	11.5	55
177	Quantum measurement and orientation tracking of fluorescent nanodiamonds inside living cells. <i>Nature Nanotechnology</i> , 2011 , 6, 358-63	28.7	452
176	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	3.8	108
175	Polymer-coated nanoparticles: a universal tool for biolabelling experiments. <i>Small</i> , 2011 , 7, 3113-27	11	246
174	Self-Assembly of Tunable Nanocrystal Superlattices Using Poly-(NIPAM) Spacers. <i>Advanced Functional Materials</i> , 2011 , 21, 4668-4676	15.6	68
173	Dielectrophoresis-Raman spectroscopy system for analysing suspended nanoparticles. <i>Lab on A Chip</i> , 2011 , 11, 921-8	7.2	46
172	2D assembly of gold-PNIPAM core-shell nanocrystals. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 5576-8	9.8	48
171	Synthesis of quantum dot doped chalcogenide glasses via sol-gel processing. <i>Journal of Applied Physics</i> , 2011 , 109, 094305	2.5	25

170	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, 18777-82	11.5	92
169	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	2.4	20
168	Fabrication of ZnO Thin Films from Nanocrystal Inks. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 19815-19821	3.8	25
167	Anomalous power laws of spectral diffusion in quantum dots: a connection to luminescence intermittency. <i>Physical Review Letters</i> , 2010 , 105, 167402	7.4	29
166	All-inorganic quantum-dot light-emitting devices formed via low-cost, wet-chemical processing. <i>Journal of Materials Chemistry</i> , 2010 , 20, 167-172		107
165	Charge hopping revealed by jitter correlations in the photoluminescence spectra of single CdSe nanocrystals. <i>Physical Review B</i> , 2010 , 81,	3.3	21
164	Surface plasmon mediated strong exciton-photon coupling in semiconductor nanocrystals. <i>Nano Letters</i> , 2010 , 10, 274-8	11.5	231
163	Influence of particle-substrate interaction on localized plasmon resonances. <i>Nano Letters</i> , 2010 , 10, 2080-65	4.5	137
162	Colloidal gold-catalyzed reduction of ferrocyanate (III) by borohydride ions: a model system for redox catalysis. <i>Langmuir</i> , 2010 , 26, 1271-7	4	86
161	Using hydrogels to accommodate hydrophobic nanoparticles in aqueous media via solvent exchange. <i>Advanced Materials</i> , 2010 , 22, 3247-50	24	33
160	Electrodynamic ratchet motor. <i>Physical Review E</i> , 2009 , 79, 030105	2.4	1
159	Hydrogen-Bond-Selective Phase Transfer of Nanoparticles across Liquid/Gel Interfaces. <i>Angewandte Chemie</i> , 2009 , 121, 5053-5056	3.6	4
158	Hydrogen-bond-selective phase transfer of nanoparticles across liquid/gel interfaces. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4953-6	16.4	35
157	Plasmon coupling of gold nanorods at short distances and in different geometries. <i>Nano Letters</i> , 2009 , 9, 1651-8	11.5	627
156	Exciton-trion transitions in single CdSe-CdS core-shell nanocrystals. <i>ACS Nano</i> , 2009 , 3, 2281-7	16.7	120
155	Gold nanoparticles: past, present, and future. <i>Langmuir</i> , 2009 , 25, 13840-51	4	864
154	Re-examination of the Size-Dependent Absorption Properties of CdSe Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 19468-19474	3.8	445
153	Evolution of Colloidal Nanocrystals: Theory and Modeling of their Nucleation and Growth. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 16342-16355	3.8	84

152	High-Resolution Line Width Measurement of Single CdSe Nanocrystals at Long Time Scales. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 5345-5348	3.8	8
151	Self-assembled gold nanoparticle monolayers in sol-gel matrices: synthesis and gas sensing applications. <i>Journal of Materials Chemistry</i> , 2009 , 19, 2051		41
150	The preparation of colloidally stable, water-soluble, biocompatible, semiconductor nanocrystals with a small hydrodynamic diameter. <i>ACS Nano</i> , 2009 , 3, 1121-8	16.7	155
149	Combinatorial Discovery of Novel Amphiphilic Polymers for the Phase Transfer of Magnetic Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 16615-16624	3.8	25
148	Mapping the optical properties of CdSe/CdS heterostructure nanocrystals: the effects of core size and shell thickness. <i>Journal of the American Chemical Society</i> , 2009 , 131, 14299-309	16.4	142
147	Spectroscopy, Imaging, and Modeling of Individual Gold Decahedra. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 18623-18631	3.8	63
146	Electrochemical charging of single gold nanorods. <i>Journal of the American Chemical Society</i> , 2009 , 131, 14664-6	16.4	213
145	The effect of surface roughness on the plasmonic response of individual sub-micron gold spheres. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 5909-14	3.6	107
144	Tunable light emission using quantum dot-coated upconverters. <i>Chemical Communications</i> , 2009 , 174-6	5.8	11
143	Direct observation of chemical reactions on single gold nanocrystals using surface plasmon spectroscopy. <i>Nature Nanotechnology</i> , 2008 , 3, 598-602	28.7	382
142	Density Functional Study of Surface Passivation of Nonpolar Wurtzite CdSe Surfaces. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 20413-20417	3.8	20
141	The effects of electron and hole injection on the photoluminescence of CdSe/CdS/ZnS nanocrystal monolayers. <i>ACS Nano</i> , 2008 , 2, 669-76	16.7	73
140	Experimental determination of quantum dot size distributions, ligand packing densities, and bioconjugation using analytical ultracentrifugation. <i>Nano Letters</i> , 2008 , 8, 2883-90	11.5	86
139	Acoustic Phonon Contributions to the Emission Spectrum of Single CdSe Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 1878-1884	3.8	64
138	Influence of the Medium Refractive Index on the Optical Properties of Single Gold Triangular Prisms on a Substrate. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 3-7	3.8	132
137	Redshift of surface plasmon modes of small gold rods due to their atomic roughness and end-cap geometry. <i>Physical Review B</i> , 2008 , 77,	3.3	45
136	Tunable infrared absorption by metal nanoparticles: The case for gold rods and shells 2008 , 41, 5-14		53
135	Sol-Gel Based Vertical Optical Microcavities with Quantum Dot Defect Layers. <i>Advanced Functional Materials</i> , 2008 , 18, 3772-3779	15.6	40

134	Gold Nanoparticle-Doped TiO ₂ Semiconductor Thin Films: Gas Sensing Properties. <i>Advanced Functional Materials</i> , 2008 , 18, 3843-3849	15.6	178
133	Highly Efficient Amplified Stimulated Emission from CdSe-CdS-ZnS Quantum Dot Doped Waveguides with Two-Photon Infrared Optical Pumping. <i>Advanced Materials</i> , 2008 , 20, 69-73	24	82
132	Complete Quenching of CdSe Nanocrystal Photoluminescence by Single Dye Molecules. <i>Advanced Materials</i> , 2008 , 20, 4274-4280	24	61
131	Modelling the optical response of gold nanoparticles. <i>Chemical Society Reviews</i> , 2008 , 37, 1792-805	58.5	924
130	Shape control in gold nanoparticle synthesis. <i>Chemical Society Reviews</i> , 2008 , 37, 1783-91	58.5	1571
129	Dark-field microscopy studies of single metal nanoparticles: understanding the factors that influence the linewidth of the localized surface plasmon resonance. <i>Journal of Materials Chemistry</i> , 2008 , 18, 1949-1960		376
128	An Electrochemical Model for Gold Colloid Formation via Citrate Reduction. <i>Zeitschrift Fur Physikalische Chemie</i> , 2007 , 221, 415-426	3.1	45
127	Review of the Synthetic Chemistry Involved in the Production of Core/Shell Semiconductor Nanocrystals. <i>Australian Journal of Chemistry</i> , 2007 , 60, 457	1.2	106
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