

Paul A Mulvaney

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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	Surface Plasmon Spectroscopy of Nanosized Metal Particles. <i>Langmuir</i> , 1996 , 12, 788-800	4	2971
294	Gold nanorods: Synthesis, characterization and applications. <i>Coordination Chemistry Reviews</i> , 2005 , 249, 1870-1901	23.2	1640
293	Calibration of rectangular atomic force microscope cantilevers. <i>Review of Scientific Instruments</i> , 1999 , 70, 3967-3969	1.7	1601
292	Synthesis of Nanosized Gold-Silica Core-Shell Particles. <i>Langmuir</i> , 1996 , 12, 4329-4335	4	1595
291	Shape control in gold nanoparticle synthesis. <i>Chemical Society Reviews</i> , 2008 , 37, 1783-91	58.5	1571
290	Modelling the optical response of gold nanoparticles. <i>Chemical Society Reviews</i> , 2008 , 37, 1792-805	58.5	924
289	Gold nanoparticles: past, present, and future. <i>Langmuir</i> , 2009 , 25, 13840-51	4	864
288	Method for the calibration of atomic force microscope cantilevers. <i>Review of Scientific Instruments</i> , 1995 , 66, 3789-3798	1.7	770
287	Diverse Applications of Nanomedicine. <i>ACS Nano</i> , 2017 , 11, 2313-2381	16.7	714
286	Plasmon coupling of gold nanorods at short distances and in different geometries. <i>Nano Letters</i> , 2009 , 9, 1651-8	11.5	627
285	Effect of the Solution Refractive Index on the Color of Gold Colloids. <i>Langmuir</i> , 1994 , 10, 3427-3430	4	596
284	Preparation of ordered colloid monolayers by electrophoretic deposition. <i>Langmuir</i> , 1993 , 9, 3408-3413	4	553
283	Optical Properties of Thin Films of [email-protected] ₂ Particles. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 3441-3452	3.4	535
282	Electric-Field-Directed Growth of Gold Nanorods in Aqueous Surfactant Solutions. <i>Advanced Functional Materials</i> , 2004 , 14, 571-579	15.6	504
281	Fermi Level Equilibration in Quantum Dot-Metal Nanojunctions. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 8810-8815	3.4	488
280	Solvent Refractive Index and Core Charge Influences on the Surface Plasmon Absorbance of Alkanethiolate Monolayer-Protected Gold Clusters. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 564-570	3.4	462
279	Quantum measurement and orientation tracking of fluorescent nanodiamonds inside living cells. <i>Nature Nanotechnology</i> , 2011 , 6, 358-63	28.7	452

278	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
277	The effects of chemisorption on the luminescence of CdSe quantum dots. <i>Langmuir</i> , 2006 , 22, 3007-13	4	432
276	Normal and torsional spring constants of atomic force microscope cantilevers. <i>Review of Scientific Instruments</i> , 2004 , 75, 1988-1996	1.7	400
275	Silica encapsulation of quantum dots and metal clusters. <i>Journal of Materials Chemistry</i> , 2000 , 10, 1259-1270		385
274	Controlled Method for Silica Coating of Silver Colloids. Influence of Coating on the Rate of Chemical Reactions. <i>Langmuir</i> , 1998 , 14, 3740-3748	4	385
273	Direct observation of chemical reactions on single gold nanocrystals using surface plasmon spectroscopy. <i>Nature Nanotechnology</i> , 2008 , 3, 598-602	28.7	382
272	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
271	Nucleation and Growth Kinetics of CdSe Nanocrystals in Octadecene. <i>Nano Letters</i> , 2004 , 4, 2303-2307	11.5	325
270	From Cd-rich to se-rich--the manipulation of CdSe nanocrystal surface stoichiometry. <i>Journal of the American Chemical Society</i> , 2007 , 129, 2841-8	16.4	311
269	Spatially-directed oxidation of gold nanoparticles by Au(III)-CTAB complexes. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 14257-61	3.4	289
268	Direct observation of chemical reactions in silica-coated gold and silver nanoparticles. <i>Advanced Materials</i> , 1997 , 9, 570-575	24	268
267	Experimental validation of theoretical models for the frequency response of atomic force microscope cantilever beams immersed in fluids. <i>Journal of Applied Physics</i> , 2000 , 87, 3978-3988	2.5	265
266	On the temperature stability of gold nanorods: comparison between thermal and ultrafast laser-induced heating. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 814-21	3.6	260
265	The Assembly of Coated Nanocrystals. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 7312-7326	3.4	255
264	Contributions from radiation damping and surface scattering to the linewidth of the longitudinal plasmon band of gold nanorods: a single particle study. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 3540-6	3.6	253
263	Electrochemistry of multilayer colloids: preparation and absorption spectrum of gold-coated silver particles. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 7061-7064		249
262	Polymer-coated nanoparticles: a universal tool for biolabelling experiments. <i>Small</i> , 2011 , 7, 3113-27	11	246
261	Long-lived nonmetallic silver clusters in aqueous solution: preparation and photolysis. <i>Journal of the American Chemical Society</i> , 1990 , 112, 4657-4664	16.4	242

260	Gold nanorod extinction spectra. <i>Journal of Applied Physics</i> , 2006 , 99, 123504	2.5	239
259	Optical Control and Patterning of Gold-NanorodPoly(vinyl alcohol) Nanocomposite Films. <i>Advanced Functional Materials</i> , 2005 , 15, 1065-1071	15.6	234
258	Single quantum dots in spherical silica particles. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 5393-6	16.4	233
257	Surface plasmon mediated strong exciton-photon coupling in semiconductor nanocrystals. <i>Nano Letters</i> , 2010 , 10, 274-8	11.5	231
256	Spectroelectrochemistry of Colloidal Silver. <i>Langmuir</i> , 1997 , 13, 1773-1782	4	219
255	Surface chemistry of colloidal silver: surface plasmon damping by chemisorbed iodide, hydrosulfide (SH ⁻), and phenylthiolate. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 679-682		218
254	Electrochemical charging of single gold nanorods. <i>Journal of the American Chemical Society</i> , 2009 , 131, 14664-6	16.4	213
253	Vibrational response of nanorods to ultrafast laser induced heating: theoretical and experimental analysis. <i>Journal of the American Chemical Society</i> , 2003 , 125, 14925-33	16.4	213
252	Phosphine-free synthesis of CdSe nanocrystals. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 20665-8	3.4	208
251	Scattering curves of ordered mesoscopic materials. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 1347-60	3.4	208
250	A solid-state plasmonic solar cell via metal nanoparticle self-assembly. <i>Advanced Materials</i> , 2012 , 24, 4750-5, 4729	24	200
249	Au@SnO ₂ CoreShell Nanocapacitors. <i>Advanced Materials</i> , 2000 , 12, 1519-1522	24	198
248	NANOSTRUCTURE OF THE DIATOM FRUSTULE AS REVEALED BY ATOMIC FORCE AND SCANNING ELECTRON MICROSCOPY. <i>Journal of Phycology</i> , 2001 , 37, 543-554	3	191
247	The state of nanoparticle-based nanoscience and biotechnology: progress, promises, and challenges. <i>ACS Nano</i> , 2012 , 6, 8468-83	16.7	188
246	Study of Anion Adsorption at the Gold-Aqueous Solution Interface by Atomic Force Microscopy. <i>Journal of the American Chemical Society</i> , 1994 , 116, 9150-9157	16.4	188
245	Surface plasmon resonances in strongly coupled gold nanosphere chains from monomer to hexamer. <i>Nano Letters</i> , 2011 , 11, 4180-7	11.5	185
244	Nucleation and growth of CdSe nanocrystals in a binary ligand system. <i>Langmuir</i> , 2005 , 21, 10226-33	4	184
243	Distance and wavelength dependent quenching of molecular fluorescence by Au@SiO ₂ core-shell nanoparticles. <i>ACS Nano</i> , 2013 , 7, 6636-48	16.7	181

242	Size Effects in ZnO: The Cluster to Quantum Dot Transition. <i>Australian Journal of Chemistry</i> , 2003 , 56, 1051	1.2	179
241	Gold Nanoparticle-Doped TiO ₂ Semiconductor Thin Films: Gas Sensing Properties. <i>Advanced Functional Materials</i> , 2008 , 18, 3843-3849	15.6	178
240	Surface chemistry of colloidal silver in aqueous solution: observations on chemisorption and reactivity. <i>The Journal of Physical Chemistry</i> , 1991 , 95, 7843-7846		176
239	Chemistry of Ag _n aggregates in aqueous solution: non-metallic oligomeric clusters and metallic particles. <i>Faraday Discussions</i> , 1991 , 92, 31	3.6	174
238	Sonoluminescence from Aqueous Alcohol and Surfactant Solutions. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 10845-10850	3.4	170
237	Spring constant calibration of atomic force microscope cantilevers of arbitrary shape. <i>Review of Scientific Instruments</i> , 2012 , 83, 103705	1.7	167
236	Preparation of CdSe nanocrystals in a micro-flow-reactor. <i>Chemical Communications</i> , 2002 , 2844-5	5.8	166
235	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
234	Gold nanoparticle thin films. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002 , 202, 119-126	5.1	151
233	Solution-processed sintered nanocrystal solar cells via layer-by-layer assembly. <i>Nano Letters</i> , 2011 , 11, 2856-64	11.5	149
232	Redox Catalysis Using [email[protected]] ₂ Colloids. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 6770-6773	3.4	146
231	The surface plasmon modes of self-assembled gold nanocrystals. <i>Nature Communications</i> , 2012 , 3, 1275	17.4	144
230	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
229	Influence of particle-substrate interaction on localized plasmon resonances. <i>Nano Letters</i> , 2010 , 10, 2080-6	16.5	137
228	Hot Carrier Extraction with Plasmonic Broadband Absorbers. <i>ACS Nano</i> , 2016 , 10, 4704-11	16.7	136
227	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
226	Homogeneous silica coating of vitreophobic colloids. <i>Chemical Communications</i> , 1996 , 731-732	5.8	135
225	Electro-optical shifts in silver nanoparticle films. <i>Chemical Physics Letters</i> , 2001 , 349, 358-362	2.5	134

224	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
223	Gold-Nanoparticle-Doped TiO ₂ Semiconductor Thin Films: Optical Characterization. <i>Advanced Functional Materials</i> , 2007 , 17, 347-354	15.6	132
222	Laser Writing in Polarized Silver Nanorod Films. <i>Advanced Materials</i> , 2002 , 14, 1000-1004	24	132
221	Drastic Surface Plasmon Mode Shifts in Gold Nanorods Due to Electron Charging. <i>Plasmonics</i> , 2006 , 1, 61-66	2.4	129
220	Synthesis and electronic properties of semiconductor nanoparticles/quantum dots. <i>Current Opinion in Colloid and Interface Science</i> , 2000 , 5, 168-172	7.6	128
219	Measurement of the forces between gold surfaces in water by atomic force microscopy. <i>Journal of Chemical Physics</i> , 1994 , 100, 8501-8505	3.9	128
218	The Future of Layer-by-Layer Assembly: A Tribute to ACS Nano Associate Editor Helmut M \ddot{u} rwald. <i>ACS Nano</i> , 2019 , 13, 6151-6169	16.7	127
217	From tunable core-shell nanoparticles to plasmonic drawbridges: Active control of nanoparticle optical properties. <i>Science Advances</i> , 2015 , 1, e1500988	14.3	127
216	The Plasmonic Pixel: Large Area, Wide Gamut Color Reproduction Using Aluminum Nanostructures. <i>Nano Letters</i> , 2016 , 16, 3817-23	11.5	123
215	Exciton-trion transitions in single CdSe-CdS core-shell nanocrystals. <i>ACS Nano</i> , 2009 , 3, 2281-7	16.7	120
214	Direct Measurement of Repulsive van der Waals Interactions Using an Atomic Force Microscope. <i>Journal of Colloid and Interface Science</i> , 1996 , 180, 460-465	9.3	119
213	Plasmonic polymer nanocomposites. <i>Nature Reviews Materials</i> , 2018 , 3, 375-391	73.3	117
212	Not All That Glitters is Gold. <i>MRS Bulletin</i> , 2001 , 26, 1009-1014	3.2	116
211	Surface chemistry of colloidal gold: deposition of lead and accompanying optical effects. <i>The Journal of Physical Chemistry</i> , 1992 , 96, 10419-10424		115
210	Layer-by-layer assembly of sintered CdSe(x)Te _{1-x} nanocrystal solar cells. <i>ACS Nano</i> , 2012 , 6, 5995-6004	16.7	114
209	Three-dimensional morphology and crystallography of gold nanorods. <i>Nano Letters</i> , 2011 , 11, 273-8	11.5	113
208	Double-Layer Interactions between Self-Assembled Monolayers of 11-Mercaptoundecanoic Acid on Gold Surfaces. <i>Langmuir</i> , 1998 , 14, 3303-3311	4	113
207	Optical properties of single semiconductor nanocrystals. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 4989-5011	3.6	112

206	Optical properties of metal nanoparticle coated silica spheres: a simple effective medium approach. <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 5056-5060	3.6	110
205	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
204	Long-lived nonmetallic silver clusters in aqueous solution: a pulse radiolysis study of their formation. <i>The Journal of Physical Chemistry</i> , 1990 , 94, 4182-4188		108
203	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
202	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
201	Enhancement of third-order nonlinear optical susceptibilities in silica-capped Au nanoparticle films with very high concentrations. <i>Applied Physics Letters</i> , 2004 , 84, 4938-4940	3.4	107
200	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
199	Surface Forces and Deformation at the Oil/Water Interface Probed Using AFM Force Measurement. <i>Langmuir</i> , 1999 , 15, 7282-7289	4	106
198	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
197	Inertial imaging with nanomechanical systems. <i>Nature Nanotechnology</i> , 2015 , 10, 339-44	28.7	102
196	Single-photon emission and quantum characterization of zinc oxide defects. <i>Nano Letters</i> , 2012 , 12, 949-545	5.4	100
195	Blinking and surface chemistry of single CdSe nanocrystals. <i>Small</i> , 2006 , 2, 204-8	11	100
194	THE STRUCTURE AND NANOMECHANICAL PROPERTIES OF THE ADHESIVE MUCILAGE THAT MEDIATES DIATOM-SUBSTRATUM ADHESION AND MOTILITY ¹ . <i>Journal of Phycology</i> , 2003 , 39, 1181-1193		98
193	Reduction of Ag ⁺ in Aqueous Polyanion Solution: Some Properties and Reactions of Long-Lived Oligomeric Silver Clusters and Metallic Silver Particles. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1990 , 94, 1449-1457		95
192	Two Mechanisms Determine Quantum Dot Blinking. <i>ACS Nano</i> , 2018 , 12, 3397-3405	16.7	93
191	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
190	Characterization of the adhesive mucilages secreted by live diatom cells using atomic force microscopy. <i>Protist</i> , 2002 , 153, 25-38	2.5	90
189	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

188	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
187	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
186	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
185	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
184	Composite Pd-Ag Particles in Aqueous Solution. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 6212-6215		85
183	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
182	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
181	Tunable whispering gallery mode emission from quantum-dot-doped microspheres. <i>Small</i> , 2005 , 1, 238-41	11	82
180	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
179	Characterisation of adhesional properties of lactose carriers using atomic force microscopy. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2001 , 25, 559-67	3.5	79
178	Surface plasmon spectroscopy of gold-poly-N-isopropylacrylamide core-shell particles. <i>Langmuir</i> , 2011 , 27, 820-7	4	78
177	Charge-induced Rayleigh instabilities in small gold rods. <i>Nano Letters</i> , 2007 , 7, 520-4	11.5	77
176	The Effect of pH on Multibubble Sonoluminescence from Aqueous Solutions Containing Simple Organic Weak Acids and Bases. <i>Journal of the American Chemical Society</i> , 1999 , 121, 7355-7359	16.4	76
175	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
174	Luminescence and Amplified Stimulated Emission in CdSe/ZnS-Nanocrystal-Doped TiO ₂ and ZrO ₂ Waveguides. <i>Advanced Functional Materials</i> , 2007 , 17, 1654-1662	15.6	74
173	Sonochemical dissolution of MnO ₂ colloids. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1995 , 91, 2843		74
172	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
171	A virtual instrument to standardise the calibration of atomic force microscope cantilevers. <i>Review of Scientific Instruments</i> , 2016 , 87, 093711	1.7	73

170	PROBING THE SURFACE OF LIVING DIATOMS WITH ATOMIC FORCE MICROSCOPY: THE NANOSTRUCTURE AND NANOMECHANICAL PROPERTIES OF THE MUCILAGE LAYER1. <i>Journal of Phycology</i> , 2003 , 39, 722-734	3	69
169	Self-Assembly of Tunable Nanocrystal Superlattices Using Poly-(NIPAM) Spacers. <i>Advanced Functional Materials</i> , 2011 , 21, 4668-4676	15.6	68
168	Determination of the Elastic Constants of Gold Nanorods Produced by Seed Mediated Growth. <i>Nano Letters</i> , 2004 , 4, 2493-2497	11.5	68
167	Silica-coated metals and semiconductors. Stabilization and nanostructuring. <i>Pure and Applied Chemistry</i> , 2000 , 72, 257-267	2.1	66
166	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
165	Scanning Nanospin Ensemble Microscope for Nanoscale Magnetic and Thermal Imaging. <i>Nano Letters</i> , 2016 , 16, 326-33	11.5	65
164	Coherent Excitation of Vibrational Modes in Gold Nanorods. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 743-747	3.4	65
163	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
162	Characterization of size, anisotropy, and density heterogeneity of nanoparticles by sedimentation velocity. <i>Analytical Chemistry</i> , 2014 , 86, 7688-95	7.8	63
161	Spectroscopy, Imaging, and Modeling of Individual Gold Decahedra. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 18623-18631	3.8	63
160	Charge trapping in the reductive dissolution of colloidal suspensions of iron(III) oxides. <i>Langmuir</i> , 1988 , 4, 1206-1211	4	62
159	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
158	Ultrasound-induced formation and dissolution of colloidal CdS. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997 , 93, 1791-1795		61
157	Complete Quenching of CdSe Nanocrystal Photoluminescence by Single Dye Molecules. <i>Advanced Materials</i> , 2008 , 20, 4274-4280	24	61
156	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
155	Three-photon excited band edge and trap emission of CdS semiconductor nanocrystals. <i>Applied Physics Letters</i> , 2004 , 84, 4472-4474	3.4	60
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153	Direct Assembly of Large Area Nanoparticle Arrays. <i>ACS Nano</i> , 2018 , 12, 7529-7537	16.7	58

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151	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
150	Cells as factories for humanized encapsulation. <i>Nano Letters</i> , 2011 , 11, 2152-6	11.5	55
149	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
148	Tunable infrared absorption by metal nanoparticles: The case for gold rods and shells 2008 , 41, 5-14		53
147	Au@SiO ₂ colloids: effect of temperature on the surface plasmon absorption. <i>New Journal of Chemistry</i> , 1998 , 22, 1285-1288	3.6	52
146	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
145	Spectroscopy and high-resolution microscopy of single nanocrystals by a focused ion beam registration method. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 3517-20	16.4	50
144	Fermi level equilibration between colloidal lead and silver particles in aqueous solution. <i>The Journal of Physical Chemistry</i> , 1992 , 96, 8700-8702		50
143	Phase transfer of noble metal nanoparticles to organic solvents. <i>Langmuir</i> , 2014 , 30, 1932-8	4	49
142	Spectroelectrochemistry of Silver Deposition on Single Gold Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 4331-5	6.4	48
141	2D assembly of gold-PNIPAM core-shell nanocrystals. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 5576-8	5.8	48
140	Energy Transfer between Quantum Dots and Conjugated Dye Molecules. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 18079-18086	3.8	47
139	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, 5972-9	7.7	47
138	Dielectrophoresis-Raman spectroscopy system for analysing suspended nanoparticles. <i>Lab on a Chip</i> , 2011 , 11, 921-8	7.2	46
137	VARIATIONS IN THE SUBSTITUTED 3-LINKED MANNANS CLOSELY ASSOCIATED WITH THE SILICIFIED WALLS OF DIATOMS ¹ . <i>Journal of Phycology</i> , 2005 , 41, 1154-1161	3	46
136	Electron transfer in aqueous colloidal tin dioxide solutions. <i>Langmuir</i> , 1990 , 6, 567-572	4	46
135	Stability of crystal facets in gold nanorods. <i>Nano Letters</i> , 2015 , 15, 1635-41	11.5	45

134	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
133	Spontaneous Spectral Diffusion in CdSe Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 1716-20	6.4	45
132	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
131	An Electrochemical Model for Gold Colloid Formation via Citrate Reduction. <i>Zeitschrift Fur Physikalische Chemie</i> , 2007 , 221, 415-426	3.1	45
130	Spectral diffusion of single semiconductor nanocrystals: The influence of the dielectric environment. <i>Applied Physics Letters</i> , 2006 , 88, 154106	3.4	45
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