

Mostafa A El-Sayed

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61,106
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#	Paper	IF	Citations
190	Cancer cell imaging and photothermal therapy in the near-infrared region by using gold nanorods. <i>Journal of the American Chemical Society</i> , 2006 , 128, 2115-20	16.4	4444
189	Preparation and Growth Mechanism of Gold Nanorods (NRs) Using Seed-Mediated Growth Method. <i>Chemistry of Materials</i> , 2003 , 15, 1957-1962	9.6	4068
188	Calculated absorption and scattering properties of gold nanoparticles of different size, shape, and composition: applications in biological imaging and biomedicine. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 7238-48	3.4	3334
187	Noble metals on the nanoscale: optical and photothermal properties and some applications in imaging, sensing, biology, and medicine. <i>Accounts of Chemical Research</i> , 2008 , 41, 1578-86	24.3	3252
186	Spectral Properties and Relaxation Dynamics of Surface Plasmon Electronic Oscillations in Gold and Silver Nanodots and Nanorods. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 8410-8426	3.4	3183
185	Why gold nanoparticles are more precious than pretty gold: noble metal surface plasmon resonance and its enhancement of the radiative and nonradiative properties of nanocrystals of different shapes. <i>Chemical Society Reviews</i> , 2006 , 35, 209-17	58.5	2539
184	Some interesting properties of metals confined in time and nanometer space of different shapes. <i>Accounts of Chemical Research</i> , 2001 , 34, 257-64	24.3	2447
183	The golden age: gold nanoparticles for biomedicine. <i>Chemical Society Reviews</i> , 2012 , 41, 2740-79	58.5	2437
182	Size and Temperature Dependence of the Plasmon Absorption of Colloidal Gold Nanoparticles. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 4212-4217	3.4	2085
181	Shape and size dependence of radiative, non-radiative and photothermal properties of gold nanocrystals. <i>International Reviews in Physical Chemistry</i> , 2000 , 19, 409-453	7	1790
180	Plasmonic photothermal therapy (PPTT) using gold nanoparticles. <i>Lasers in Medical Science</i> , 2008 , 23, 217-28	3.1	1648
179	Surface plasmon resonance scattering and absorption of anti-EGFR antibody conjugated gold nanoparticles in cancer diagnostics: applications in oral cancer. <i>Nano Letters</i> , 2005 , 5, 829-34	11.5	1614
178	Gold and silver nanoparticles in sensing and imaging: sensitivity of plasmon response to size, shape, and metal composition. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 19220-5	3.4	1583
177	Gold nanorods: from synthesis and properties to biological and biomedical applications. <i>Advanced Materials</i> , 2009 , 21, 4880-4910	24	1473
176	On the Universal Scaling Behavior of the Distance Decay of Plasmon Coupling in Metal Nanoparticle Pairs: A Plasmon Ruler Equation. <i>Nano Letters</i> , 2007 , 7, 2080-2088	11.5	1240
175	Gold nanoparticles: Optical properties and implementations in cancer diagnosis and photothermal therapy. <i>Journal of Advanced Research</i> , 2010 , 1, 13-28	13	1217
174	Review of Some Interesting Surface Plasmon Resonance-enhanced Properties of Noble Metal Nanoparticles and Their Applications to Biosystems. <i>Plasmonics</i> , 2007 , 2, 107-118	2.4	973

173	Gold nanorod assisted near-infrared plasmonic photothermal therapy (PPTT) of squamous cell carcinoma in mice. <i>Cancer Letters</i> , 2008 , 269, 57-66	9.9	925
172	Small is different: shape-, size-, and composition-dependent properties of some colloidal semiconductor nanocrystals. <i>Accounts of Chemical Research</i> , 2004 , 37, 326-33	24.3	803
171	Evidence for Bilayer Assembly of Cationic Surfactants on the Surface of Gold Nanorods. <i>Langmuir</i> , 2001 , 17, 6368-6374	4	724
170	Plasmonic coupling in noble metal nanostructures. <i>Chemical Physics Letters</i> , 2010 , 487, 153-164	2.5	688
169	Nuclear targeting of gold nanoparticles in cancer cells induces DNA damage, causing cytokinesis arrest and apoptosis. <i>Journal of the American Chemical Society</i> , 2010 , 132, 1517-9	16.4	544
168	Visible to Infrared Luminescence from a 28-Atom Gold Cluster. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 3410-3415	3.4	503
167	Beating cancer in multiple ways using nanogold. <i>Chemical Society Reviews</i> , 2011 , 40, 3391-404	58.5	499
166	Dependence of the enhanced optical scattering efficiency relative to that of absorption for gold metal nanorods on aspect ratio, size, end-cap shape, and medium refractive index. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 20331-8	3.4	497
165	Kinetically Controlled Growth and Shape Formation Mechanism of Platinum Nanoparticles. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 3316-3320	3.4	420
164	Suzuki cross-coupling reactions catalyzed by palladium nanoparticles in aqueous solution. <i>Organic Letters</i> , 2000 , 2, 2385-8	6.2	409
163	The Effect of Stabilizers on the Catalytic Activity and Stability of Pd Colloidal Nanoparticles in the Suzuki Reactions in Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 8938-8943	3.4	406
162	Surface-Enhanced Raman Scattering Studies on Aggregated Gold Nanorods. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 3372-3378	2.8	401
161	Size Effects of PVP/Pd Nanoparticles on the Catalytic Suzuki Reactions in Aqueous Solution. <i>Langmuir</i> , 2002 , 18, 4921-4925	4	386
160	Picosecond Dynamics of Colloidal Gold Nanoparticles. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 8053-8056	3.09	
159	Peptide-conjugated gold nanorods for nuclear targeting. <i>Bioconjugate Chemistry</i> , 2007 , 18, 1490-7	6.3	299
158	Enhancing the rate of electrochemical nitrogen reduction reaction for ammonia synthesis under ambient conditions using hollow gold nanocages. <i>Nano Energy</i> , 2018 , 49, 316-323	17.1	270
157	Plasmonic photo-thermal therapy (PPTT) Peer review under responsibility of Alexandria University Faculty of Medicine. View all notes. <i>Alexandria Journal of Medicine</i> , 2011 , 47, 1-9	0.7	265
156	How Does a Gold Nanorod Melt?#. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 7867-7870	3.4	264

155	Shape Transformation and Surface Melting of Cubic and Tetrahedral Platinum Nanocrystals. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 6145-6151	3.4	264
154	The most effective gold nanorod size for plasmonic photothermal therapy: theory and in vitro experiments. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 1319-26	3.4	262
153	Thermal Reshaping of Gold Nanorods in Micelles. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 9370-9374	3.4	259
152	Electrically tunable plasmonic behavior of nanocube-polymer nanomaterials induced by a redox-active electrochromic polymer. <i>ACS Nano</i> , 2014 , 8, 6182-92	16.7	241
151	The potential use of the enhanced nonlinear properties of gold nanospheres in photothermal cancer therapy. <i>Lasers in Surgery and Medicine</i> , 2007 , 39, 747-53	3.6	219
150	Remote triggered release of doxorubicin in tumors by synergistic application of thermosensitive liposomes and gold nanorods. <i>ACS Nano</i> , 2011 , 5, 4919-26	16.7	202
149	Synthesis and optical properties of small Au nanorods using a seedless growth technique. <i>Langmuir</i> , 2012 , 28, 9807-15	4	182
148	On the use of plasmonic nanoparticle pairs as a plasmon ruler: the dependence of the near-field dipole plasmon coupling on nanoparticle size and shape. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 1946-53	2.8	182
147	Efficacy, long-term toxicity, and mechanistic studies of gold nanorods photothermal therapy of cancer in xenograft mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E3110-E3118	11.5	176
146	Effect of Nanocatalysis in Colloidal Solution on the Tetrahedral and Cubic Nanoparticle SHAPE: Electron-Transfer Reaction Catalyzed by Platinum Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 5726-5733	3.4	162
145	Surface Plasmon Resonance Sensitivity of Metal Nanostructures: Physical Basis and Universal Scaling in Metal Nanoshells. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 17451-17454	3.8	157
144	Gold-Nanoparticle-Assisted Plasmonic Photothermal Therapy Advances Toward Clinical Application. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 15375-15393	3.8	154
143	Photoexcited Surface Frustrated Lewis Pairs for Heterogeneous Photocatalytic CO ₂ Reduction. <i>Journal of the American Chemical Society</i> , 2016 , 138, 1206-14	16.4	154
142	Gold nanoparticles in biological optical imaging. <i>Nano Today</i> , 2019 , 24, 120-140	17.9	154
141	A Real-Time Surface Enhanced Raman Spectroscopy Study of Plasmonic Photothermal Cell Death Using Targeted Gold Nanoparticles. <i>Journal of the American Chemical Society</i> , 2016 , 138, 1258-64	16.4	152
140	Platinum-Coated Gold Nanorods: Efficient Reactive Oxygen Scavengers That Prevent Oxidative Damage toward Healthy, Untreated Cells during Plasmonic Photothermal Therapy. <i>ACS Nano</i> , 2017 , 11, 579-586	16.7	151
139	Probing the Charge Storage Mechanism of a Pseudocapacitive MnO ₂ Electrode Using in Operando Raman Spectroscopy. <i>Chemistry of Materials</i> , 2015 , 27, 6608-6619	9.6	141
138	Effect of Catalytic Activity on the Metallic Nanoparticle Size Distribution: Electron-Transfer Reaction between Fe(CN) ₆ and Thiosulfate Ions Catalyzed by PVP/Platinum Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 12416-12424	3.4	140

137	Effect of the dielectric constant of the surrounding medium and the substrate on the surface plasmon resonance spectrum and sensitivity factors of highly symmetric systems: silver nanocubes. <i>Journal of the American Chemical Society</i> , 2012 , 134, 6434-42	16.4	129
136	Targeting heat shock protein 70 using gold nanorods enhances cancer cell apoptosis in low dose plasmonic photothermal therapy. <i>Biomaterials</i> , 2016 , 102, 1-8	15.6	128
135	Some Aspects of Colloidal Nanoparticle Stability, Catalytic Activity, and Recycling Potential. <i>Topics in Catalysis</i> , 2008 , 47, 15-21	2.3	127
134	Relative Enhancement of Ultrafast Emission in Gold Nanorods. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 3101-3104	3.4	126
133	Hollow and Solid Metallic Nanoparticles in Sensing and in Nanocatalysis. <i>Chemistry of Materials</i> , 2014 , 26, 44-58	9.6	124
132	Targeting cancer cell integrins using gold nanorods in photothermal therapy inhibits migration through affecting cytoskeletal proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E5655-E5663	11.5	121
131	Unraveling the Nature of Anomalously Fast Energy Storage in T-NbO. <i>Journal of the American Chemical Society</i> , 2017 , 139, 7071-7081	16.4	118
130	Observing real-time molecular event dynamics of apoptosis in living cancer cells using nuclear-targeted plasmonically enhanced Raman nanoprobes. <i>ACS Nano</i> , 2014 , 8, 4883-92	16.7	116
129	Excited-State Dynamics of a Protonated Retinal Schiff Base in Solution. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 18586-18591		112
128	Nuclear Membrane-Targeted Gold Nanoparticles Inhibit Cancer Cell Migration and Invasion. <i>ACS Nano</i> , 2017 , 11, 3716-3726	16.7	110
127	Different Plasmon Sensing Behavior of Silver and Gold Nanorods. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 1541-5	6.4	109
126	Can the Observed Changes in the Size or Shape of a Colloidal Nanocatalyst Reveal the Nanocatalysis Mechanism Type: Homogeneous or Heterogeneous?. <i>Topics in Catalysis</i> , 2008 , 48, 60-74	2.3	107
125	Plasmonic gold nanoparticles: Optical manipulation, imaging, drug delivery and therapy. <i>Journal of Controlled Release</i> , 2019 , 311-312, 170-189	11.7	102
124	Simultaneous Time-Dependent Surface-Enhanced Raman Spectroscopy, Metabolomics, and Proteomics Reveal Cancer Cell Death Mechanisms Associated with Gold Nanorod Photothermal Therapy. <i>Journal of the American Chemical Society</i> , 2016 , 138, 15434-15442	16.4	93
123	Assemblies of silver nanocubes for highly sensitive SERS chemical vapor detection. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 2777	13	89
122	Enhancing the efficiency of gold nanoparticles treatment of cancer by increasing their rate of endocytosis and cell accumulation using rifampicin. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4464-7	16.4	88
121	Real-time molecular imaging throughout the entire cell cycle by targeted plasmonic-enhanced Rayleigh/Raman spectroscopy. <i>Nano Letters</i> , 2012 , 12, 5369-75	11.5	85
120	Bacteriorhodopsin/TiO ₂ nanotube arrays hybrid system for enhanced photoelectrochemical water splitting. <i>Energy and Environmental Science</i> , 2011 , 4, 2909	35.4	83

119	Photoelectrochemical Water Oxidation Characteristics of Anodically Fabricated TiO ₂ Nanotube Arrays: Structural and Optical Properties. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 12024-12029	3.8	83
118	Surface-enhanced Raman spectroscopy for real-time monitoring of reactive oxygen species-induced DNA damage and its prevention by platinum nanoparticles. <i>ACS Nano</i> , 2013 , 7, 7524-33	16.7	81
117	Activation Energy of the Reaction between Hexacyanoferrate(III) and Thiosulfate Ions Catalyzed by Platinum Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 10956-10959	3.4	79
116	Variation of the Thickness and Number of Wells in the CdS/HgS/CdS Quantum Dot Quantum Well System. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 5548-5551	2.8	79
115	Electrochemical Synthesis of Ammonia from N and HO under Ambient Conditions Using Pore-Size-Controlled Hollow Gold Nanocatalysts with Tunable Plasmonic Properties. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 5160-5166	6.4	78
114	Dark-field light scattering imaging of living cancer cell component from birth through division using bioconjugated gold nanoprobe. <i>Journal of Biomedical Optics</i> , 2010 , 15, 046025	3.5	74
113	Carrier dynamics and the role of surface defects: Designing a photocatalyst for gas-phase CO ₂ reduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E8011-E8020	11.5	73
112	Gold Nanorod Photothermal Therapy Alters Cell Junctions and Actin Network in Inhibiting Cancer Cell Collective Migration. <i>ACS Nano</i> , 2018 , 12, 9279-9290	16.7	72
111	Unraveling the biomolecular snapshots of mitosis in healthy and cancer cells using plasmonically-enhanced Raman spectroscopy. <i>Journal of the American Chemical Society</i> , 2014 , 136, 15961-8	16.4	71
110	The pump power dependence of the femtosecond relaxation of CdSe nanoparticles observed in the spectral range from visible to infrared. <i>Journal of Chemical Physics</i> , 2002 , 116, 3828-3833	3.9	68
109	A new nanotechnology technique for determining drug efficacy using targeted plasmonically enhanced single cell imaging spectroscopy. <i>Journal of the American Chemical Society</i> , 2013 , 135, 4688-91	16.4	62
108	Picosecond Electronic Relaxation in CdS/HgS/CdS Quantum Dot Quantum Well Semiconductor Nanoparticles. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 6381-6384		62
107	Photoisomerization Quantum Yield and Apparent Energy Content of the K Intermediate in the Photocycles of Bacteriorhodopsin, Its Mutants D85N, R82Q, and D212N, and Deionized Blue Bacteriorhodopsin. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 2391-2398		61
106	FTIR Study of the Adsorption of the Capping Material to Different Platinum Nanoparticle Shapes. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 8371-8375	2.8	59
105	Probing Structural Evolution and Charge Storage Mechanism of NiOH Electrode Materials using In Operando Resonance Raman Spectroscopy. <i>Advanced Science</i> , 2016 , 3, 1500433	13.6	58
104	High-density femtosecond transient absorption spectroscopy of semiconductor nanoparticles. A tool to investigate surface quality. <i>Pure and Applied Chemistry</i> , 2000 , 72, 165-177	2.1	57
103	Electrically Controlled Plasmonic Behavior of Gold Nanostructures: Transparent Plasmonic Aggregates. <i>Chemistry of Materials</i> , 2016 , 28, 2868-2881	9.6	55
102	The Coupling between Gold or Silver Nanocubes in Their Homo-Dimers: A New Coupling Mechanism at Short Separation Distances. <i>Nano Letters</i> , 2015 , 15, 3391-7	11.5	54

101	Molecular Mechanism of the Differential Photoelectric Response of Bacteriorhodopsin. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 3420-3423	3.4	53
100	High-temperature surface enhanced Raman spectroscopy for in situ study of solid oxide fuel cell materials. <i>Energy and Environmental Science</i> , 2014 , 7, 306-310	35.4	51
99	Plasmon-enhanced photo(electro)chemical nitrogen fixation under ambient conditions using visible light responsive hybrid hollow Au-Ag ₂ O nanocages. <i>Nano Energy</i> , 2019 , 63, 103886	17.1	49
98	Change in Titania Structure from Amorphousness to Crystalline Increasing Photoinduced Electron-Transfer Rate in Dye-Titania System. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 9008-9011	3.8	48
97	A Step Toward Efficient Panchromatic Multi-Chromophoric Sensitizers for Dye Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2015 , 27, 6305-6313	9.6	47
96	Treatment of natural mammary gland tumors in canines and felines using gold nanorods-assisted plasmonic photothermal therapy to induce tumor apoptosis. <i>International Journal of Nanomedicine</i> , 2016 , 11, 4849-4863	7.3	46
95	Operando Investigation into Dynamic Evolution of Cathode-Electrolyte Interfaces in a Li-Ion Battery. <i>Nano Letters</i> , 2019 , 19, 2037-2043	11.5	45
94	Determining the Mechanism of Solution Metallic Nanocatalysis with Solid and Hollow Nanoparticles: Homogeneous or Heterogeneous. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 21886-21893 ^{3,8}		45
93	Photothermal reshaping of prismatic Au nanoparticles in periodic monolayer arrays by femtosecond laser pulses. <i>Journal of Applied Physics</i> , 2005 , 98, 114301	2.5	45
92	Gold nanomaterials as key suppliers in biological and chemical sensing, catalysis, and medicine. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020 , 1864, 129435	4	45
91	An Experimental Insight into the Structural and Electronic Characteristics of Strontium-Doped Titanium Dioxide Nanotube Arrays. <i>Advanced Functional Materials</i> , 2014 , 24, 6783-6796	15.6	44
90	Some properties of spherical and rod-shaped semiconductor and metal nanocrystals. <i>Pure and Applied Chemistry</i> , 2002 , 74, 1675-1692	2.1	41
89	Dual-Responsive Reversible Plasmonic Behavior of CoreShell Nanostructures with pH-Sensitive and Electroactive Polymer Shells. <i>Chemistry of Materials</i> , 2016 , 28, 7551-7563	9.6	40
88	Some recent developments in photoelectrochemical water splitting using nanostructured TiO ₂ : a short review. <i>Theoretical Chemistry Accounts</i> , 2012 , 131, 1	1.9	39
87	Tissue distribution and efficacy of gold nanorods coupled with laser induced photoplasmonic therapy in ehrlich carcinoma solid tumor model. <i>PLoS ONE</i> , 2013 , 8, e76207	3.7	39
86	Elucidation of ultraviolet radiation-induced cell responses and intracellular biomolecular dynamics in mammalian cells using surface-enhanced Raman spectroscopy. <i>Chemical Science</i> , 2016 , 7, 1133-1141	9.4	38
85	Biological Targeting of Plasmonic Nanoparticles Improves Cellular Imaging via the Enhanced Scattering in the Aggregates Formed. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 2555-2561	6.4	38
84	Intracellular Assembly of Nuclear-Targeted Gold Nanosphere Enables Selective Plasmonic Photothermal Therapy of Cancer by Shifting Their Absorption Wavelength toward Near-Infrared Region. <i>Bioconjugate Chemistry</i> , 2017 , 28, 2452-2460	6.3	37

83	Gold Nanorods as Drug Delivery Vehicles for Rifampicin Greatly Improve the Efficacy of Combating Mycobacterium tuberculosis with Good Biocompatibility with the Host Cells. <i>Bioconjugate Chemistry</i> , 2016 , 27, 2486-2492	6.3	37
82	A Comparison of the Photoelectric Current Responses Resulting from the Proton Pumping Process of Bacteriorhodopsin under Pulsed and CW Laser Excitations. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 10599-10604	3.4	35
81	Collective multipole oscillations direct the plasmonic coupling at the nanojunction interfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 19299-19304	11.5	34
80	Dynamic Hybrid Metasurfaces. <i>Nano Letters</i> , 2021 , 21, 1238-1245	11.5	33
79	Dual-Excitation Nanocellulose Plasmonic Membranes for Molecular and Cellular SERS Detection. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 18380-18389	9.5	32
78	Nanocatalysts Can Change the Number of Electrons Involved in OxidationReduction Reaction with the Nanocages Being the Most Efficient. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 24171-24176	3.8	31
77	Design of Hybrid Electrochromic Materials with Large Electrical Modulation of Plasmonic Resonances. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 13064-75	9.5	30
76	Hyperoxia Induces Intracellular Acidification in Neonatal Mouse Lung Fibroblasts: Real-Time Investigation Using Plasmonically Enhanced Raman Spectroscopy. <i>Journal of the American Chemical Society</i> , 2016 , 138, 3779-88	16.4	28
75	Surface assembly and plasmonic properties in strongly coupled segmented gold nanorods. <i>Small</i> , 2013 , 9, 2979-90	11	28
74	Plasmonic and chiroplasmonic nanobiosensors based on gold nanoparticles. <i>Talanta</i> , 2020 , 212, 120782	6.2	27
73	Extinction vs Absorption: Which Is the Indicator of Plasmonic Field Strength for Silver Nanocubes?. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 23019-23026	3.8	27
72	Thin to Thick, Short to Long: Spectral Properties of Gold Nanorods by Theoretical Modeling. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 18653-18656	3.8	26
71	Silver Nanocube Aggregates in Cylindrical Pores for Higher Refractive Index Plasmonic Sensing. <i>Particle and Particle Systems Characterization</i> , 2014 , 31, 274-283	3.1	26
70	Enhanced Electrocatalytic Activity toward the Oxygen Reduction Reaction through Alloy Formation: PlatinumSilver Alloy Nanocages. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 14643-14651	3.8	25
69	Controlling the Catalytic Efficiency on the Surface of Hollow Gold Nanoparticles by Introducing an Inner Thin Layer of Platinum or Palladium. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 4088-94	6.4	25
68	Are Hot Spots between Two Plasmonic Nanocubes of Silver or Gold Formed between Adjacent Corners or Adjacent Facets? A DDA Examination. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 2229-34	6.4	25
67	Tailoring the Plasmonic Modes of a Grating-Nanocube Assembly to Achieve Broadband Absorption in the Visible Spectrum. <i>Advanced Functional Materials</i> , 2014 , 24, 6797-6805	15.6	25
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65	The Sensitivity of the Distance Dependent Plasmonic Coupling between Two Nanocubes to their Orientation: Edge-to-Edge versus Face-to-Face. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 4564-4570	3.8	24
64	Enhancing Catalytic Efficiency of Hollow Palladium Nanoparticles by Photothermal Heating of Gold Nanoparticles Added to the Cavity: Palladium-Gold Nanorattles. <i>ChemCatChem</i> , 2014 , 6, 3540-3546	5.2	24
63	Deposition of loosely bound organic DAA? dyes on sensitized TiO ₂ film: a possible strategy to suppress charge recombination and enhance power conversion efficiency in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 11229-11234	13	24
62	Substrate effect on the plasmonic sensing ability of hollow nanoparticles of different shapes. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 4468-77	3.4	24
61	Photoelectric Conversion Properties of Dye-Sensitized Solar Cells Using Dye-Dispersing Titania. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 4848-4854	3.8	24
60	Multimodal plasmon coupling in low symmetry gold nanoparticle pairs detected in surface-enhanced Raman scattering. <i>Applied Physics Letters</i> , 2011 , 98, 183115	3.4	24
59	Room temperature optical gain in CdSe nanorod solutions. <i>Journal of Applied Physics</i> , 2002 , 92, 6799-6803	25	23
58	Plasmonic Spectroscopy: The Electromagnetic Field Strength and its Distribution Determine the Sensitivity Factor of Face-to-Face Ag Nanocube Dimers in Solution and on a Substrate. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 15579-15587	3.8	22
57	The unusual fluorescence intensity enhancement of poly(p-phenyleneethynylene) polymer separated from the silver nanocube surface by H-bonded LbL shells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 16745		22
56	Redetermination of the Quantum Yield of Photoisomerization and Energy Content in the K-Intermediate of Bacteriorhodopsin Photocycle and Its Mutants by the Photoacoustic Technique. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 6629-6633	3.4	22
55	XAV939: from a small inhibitor to a potent drug bioconjugate when delivered by gold nanoparticles. <i>Bioconjugate Chemistry</i> , 2014 , 25, 207-215	6.3	21
54	Dependence of the Threshold Energy of Femtosecond Laser Ejection of Gold Nanoprisms from Quartz Substrates on the Nanoparticle Environment. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 8934-8941	3.8	21
53	Electrically driven reprogrammable phase-change metasurface reaching 80% efficiency.. <i>Nature Communications</i> , 2022 , 13, 1696	17.4	21
52	Cytotoxic effects of cytoplasmic-targeted and nuclear-targeted gold and silver nanoparticles in HSC-3 cells--a mechanistic study. <i>Toxicology in Vitro</i> , 2015 , 29, 694-705	3.6	20
51	Effects of the Substrate Refractive Index, the Exciting Light Propagation Direction, and the Relative Cube Orientation on the Plasmonic Coupling Behavior of Two Silver Nanocubes at Different Separations. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 20896-20904	3.8	20
50	The Effect of Different Metal Cation Binding on the Proton Pumping in Bacteriorhodopsin. <i>Israel Journal of Chemistry</i> , 1995 , 35, 465-474	3.4	20
49	Improving the Flow Cytometry-based Detection of the Cellular Uptake of Gold Nanoparticles. <i>Analytical Chemistry</i> , 2019 , 91, 14261-14267	7.8	19
48	Gold-nanoparticle-decorated hybrid mesoflowers: an efficient surface-enhanced Raman scattering substrate for ultra-trace detection of prostate specific antigen. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 14085-91	3.4	18

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