

Isabel pastoriza Santos

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184
papers

19,643
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69
h-index

139
g-index

196
ext. papers

21,757
ext. citations

9.5
avg, IF

6.77
L-index

#	Paper	IF	Citations
184	Gold nanorods: Synthesis, characterization and applications. <i>Coordination Chemistry Reviews</i> , 2005 , 249, 1870-1901	23.2	1640
183	Present and Future of Surface-Enhanced Raman Scattering. <i>ACS Nano</i> , 2020 , 14, 28-117	16.7	1000
182	Modelling the optical response of gold nanoparticles. <i>Chemical Society Reviews</i> , 2008 , 37, 1792-805	58.5	924
181	Mapping surface plasmons on a single metallic nanoparticle. <i>Nature Physics</i> , 2007 , 3, 348-353	16.2	818
180	Synthesis of Silver Nanoprisms in DMF. <i>Nano Letters</i> , 2002 , 2, 903-905	11.5	591
179	High-yield synthesis and optical response of gold nanostars. <i>Nanotechnology</i> , 2008 , 19, 015606	3.4	537
178	Formation of PVP-Protected Metal Nanoparticles in DMF. <i>Langmuir</i> , 2002 , 18, 2888-2894	4	481
177	Zeptomol detection through controlled ultrasensitive surface-enhanced Raman scattering. <i>Journal of the American Chemical Society</i> , 2009 , 131, 4616-8	16.4	479
176	Formation and Stabilization of Silver Nanoparticles through Reduction by N,N-Dimethylformamide. <i>Langmuir</i> , 1999 , 15, 948-951	4	459
175	Tuning size and sensing properties in colloidal gold nanostars. <i>Langmuir</i> , 2010 , 26, 14943-50	4	378
174	Layer-by-Layer Assembled Mixed Spherical and Planar Gold Nanoparticles: Control of Interparticle Interactions. <i>Langmuir</i> , 2002 , 18, 3694-3697	4	376
173	Silica-Coating and Hydrophobation of CTAB-Stabilized Gold Nanorods. <i>Chemistry of Materials</i> , 2006 , 18, 2465-2467	9.6	347
172	Colloidal silver nanoplates. State of the art and future challenges. <i>Journal of Materials Chemistry</i> , 2008 , 18, 1724		341
171	Synthesis and Optical Properties of Gold Nanodecahedra with Size Control. <i>Advanced Materials</i> , 2006 , 18, 2529-2534	24	329
170	Nanostars shine bright for you: Colloidal synthesis, properties and applications of branched metallic nanoparticles. <i>Current Opinion in Colloid and Interface Science</i> , 2011 , 16, 118-127	7.6	319
169	N,N-Dimethylformamide as a Reaction Medium for Metal Nanoparticle Synthesis. <i>Advanced Functional Materials</i> , 2009 , 19, 679-688	15.6	314
168	One-Pot Synthesis of Ag@TiO ₂ CoreShell Nanoparticles and Their Layer-by-Layer Assembly. <i>Langmuir</i> , 2000 , 16, 2731-2735	4	299

167	Au@pNIPAM colloids as molecular traps for surface-enhanced, spectroscopic, ultra-sensitive analysis. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 138-43	16.4	263
166	Effects of elastic anisotropy on strain distributions in decahedral gold nanoparticles. <i>Nature Materials</i> , 2008 , 7, 120-4	27	263
165	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
164	Size tunable Au@Ag core-shell nanoparticles: synthesis and surface-enhanced Raman scattering properties. <i>Langmuir</i> , 2013 , 29, 15076-82	4	255
163	Mechanism of Strong Luminescence Photoactivation of Citrate-Stabilized Water-Soluble Nanoparticles with CdSe Cores. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 15461-15469	3.4	254
162	Nanorod-coated PNIPAM microgels: thermoresponsive optical properties. <i>Small</i> , 2007 , 3, 1222-9	11	240
161	Encapsulation and Growth of Gold Nanoparticles in Thermoresponsive Microgels. <i>Advanced Materials</i> , 2008 , 20, 1666-1670	24	234
160	Detection and imaging of quorum sensing in <i>Pseudomonas aeruginosa</i> biofilm communities by surface-enhanced resonance Raman scattering. <i>Nature Materials</i> , 2016 , 15, 1203-1211	27	222
159	Formation of Silver Nanoprisms with Surface Plasmons at Communication Wavelengths. <i>Advanced Functional Materials</i> , 2006 , 16, 766-773	15.6	220
158	All-in-one optical heater-thermometer nanoplatform operative from 300 to 2000 k based on Er(3+) emission and blackbody radiation. <i>Advanced Materials</i> , 2013 , 25, 4868-74	24	219
157	Binary cooperative complementary nanoscale interfacial materials. Reduction of silver nanoparticles in DMF. Formation of monolayers and stable colloids. <i>Pure and Applied Chemistry</i> , 2000 , 72, 83-90	2.1	214
156	Highly controlled silica coating of PEG-capped metal nanoparticles and preparation of SERS-encoded particles. <i>Langmuir</i> , 2009 , 25, 13894-9	4	176
155	Quantitative determination of the size dependence of surface plasmon resonance damping in single Ag@SiO(2) nanoparticles. <i>Nano Letters</i> , 2009 , 9, 3463-9	11.5	173
154	Evidence of an aggregative mechanism during the formation of silver nanowires in N,N-dimethylformamide. <i>Journal of Materials Chemistry</i> , 2004 , 14, 607-610		173
153	Plasmon-enhanced light harvesting: applications in enhanced photocatalysis, photodynamic therapy and photovoltaics. <i>RSC Advances</i> , 2015 , 5, 29076-29097	3.7	163
152	Temperature, pH, and ionic strength induced changes of the swelling behavior of PNIPAM-poly(allylacetic acid) copolymer microgels. <i>Langmuir</i> , 2008 , 24, 6300-6	4	155
151	Gold nanoparticle-loaded filter paper: a recyclable dip-catalyst for real-time reaction monitoring by surface enhanced Raman scattering. <i>Chemical Communications</i> , 2015 , 51, 4572-5	5.8	154
150	Aerobic synthesis of cu nanoplates with intense plasmon resonances. <i>Small</i> , 2009 , 5, 440-3	11	140

149	Biomaterials by Design: Layer-By-Layer Assembled Ion-Selective and Biocompatible Films of TiO ₂ Nanoshells for Neurochemical Monitoring. <i>Advanced Functional Materials</i> , 2002 , 12, 255	15.6	140
148	Au@pNIPAM Thermosensitive Nanostructures: Control over Shell Cross-linking, Overall Dimensions, and Core Growth. <i>Advanced Functional Materials</i> , 2009 , 19, 3070-3076	15.6	136
147	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
146	The crystalline structure of gold nanorods revisited: evidence for higher-index lateral facets. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 9397-400	16.4	131
145	Core-Shell Colloids and Hollow Polyelectrolyte Capsules Based on Diazo-resins. <i>Advanced Functional Materials</i> , 2001 , 11, 122-128	15.6	131
144	A versatile approach for the preparation of thermosensitive PNIPAM core-shell microgels with nanoparticle cores. <i>ChemPhysChem</i> , 2006 , 7, 2298-301	3.2	129
143	Au@Ag Nanoparticles: Halides Stabilize {100} Facets. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 2209-2216	6.4	126
142	Plasmon spectroscopy and imaging of individual gold nanodecahedra: a combined optical microscopy, cathodoluminescence, and electron energy-loss spectroscopy study. <i>Nano Letters</i> , 2012 , 12, 4172-80	11.5	120
141	Chemical sharpening of gold nanorods: the rod-to-octahedron transition. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 8983-7	16.4	117
140	Plasmonic polymer nanocomposites. <i>Nature Reviews Materials</i> , 2018 , 3, 375-391	73.3	117
139	Multiresponsive hybrid colloids based on gold nanorods and poly(NIPAM-co-allylacetic acid) microgels: temperature- and pH-tunable plasmon resonance. <i>Langmuir</i> , 2009 , 25, 3163-7	4	110
138	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
137	Metal nanoparticles and supramolecular macrocycles: a tale of synergy. <i>Chemistry - A European Journal</i> , 2014 , 20, 10874-83	4.8	108
136	Plasmon coupling in layer-by-layer assembled gold nanorod films. <i>Langmuir</i> , 2007 , 23, 4606-11	4	108
135	Modeling the Optical Response of Highly Faceted Metal Nanoparticles with a Fully 3D Boundary Element Method. <i>Advanced Materials</i> , 2008 , 20, 4288-4293	24	103
134	Nanocrystal engineering of noble metals and metal chalcogenides: controlling the morphology, composition and crystallinity. <i>CrystEngComm</i> , 2015 , 17, 3727-3762	3.3	100
133	Environmental Optical Sensitivity of Gold Nanodecahedra. <i>Advanced Functional Materials</i> , 2007 , 17, 1443-1450	14.5	99
132	Protein/Polymer-Based Dual-Responsive Gold Nanoparticles with pH-Dependent Thermal Sensitivity. <i>Advanced Functional Materials</i> , 2012 , 22, 1436-1444	15.6	97

131	Chemical seeded growth of Ag nanoparticle arrays and their application as reproducible SERS substrates. <i>Nano Today</i> , 2010 , 5, 21-27	17.9	96
130	Encapsulation of Single Plasmonic Nanoparticles within ZIF-8 and SERS Analysis of the MOF Flexibility. <i>Small</i> , 2016 , 12, 3935-43	11	96
129	Two-dimensional quasistatic stationary short range surface plasmons in flat nanoprisms. <i>Nano Letters</i> , 2010 , 10, 902-7	11.5	93
128	The Effect of Silica Coating on the Optical Response of Sub-micrometer Gold Spheres. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 13361-13366	3.8	90
127	Gold Nanorod-pNIPAM Hybrids with Reversible Plasmon Coupling: Synthesis, Modeling, and SERS Properties. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 12530-8	9.5	87
126	Physical aging of polystyrene/gold nanocomposites and its relation to the calorimetric Tg depression. <i>Soft Matter</i> , 2011 , 7, 3607	3.6	84
125	Tunable whispering gallery mode emission from quantum-dot-doped microspheres. <i>Small</i> , 2005 , 1, 238-41	4.1	82
124	Rapid epitaxial growth of Ag on Au nanoparticles: from Au nanorods to core-shell Au@Ag octahedrons. <i>Chemistry - A European Journal</i> , 2010 , 16, 5558-63	4.8	79
123	Optical response of individual Au-Ag@SiO ₂ heterodimers. <i>ACS Nano</i> , 2013 , 7, 2522-31	16.7	77
122	Direct imaging of surface plasmon resonances on single triangular silver nanoprisms at optical wavelength using low-loss EFTEM imaging. <i>Optics Letters</i> , 2009 , 34, 1003-5	3	77
121	Gold Nanooctahedra with Tunable Size and Microfluidic-Induced 3D Assembly for Highly Uniform SERS-Active Supercrystals. <i>Chemistry of Materials</i> , 2015 , 27, 8310-8317	9.6	75
120	Galvanic Replacement Coupled to Seeded Growth as a Route for Shape-Controlled Synthesis of Plasmonic Nanorattles. <i>Journal of the American Chemical Society</i> , 2016 , 138, 11453-6	16.4	75
119	Palladium Nanoparticle-Loaded Cellulose Paper: A Highly Efficient, Robust, and Recyclable Self-Assembled Composite Catalytic System. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 230-8	6.4	74
118	Growing Au/Ag nanoparticles within microgel colloids for improved surface-enhanced Raman scattering detection. <i>Chemistry - A European Journal</i> , 2010 , 16, 9462-7	4.8	72
117	Plasmonic Nanorods with Boosted Refractive Index Susceptibility and SERS Efficiency: A Multifunctional Platform for Hydrogen Sensing and Monitoring of Catalytic Reactions. <i>Chemistry of Materials</i> , 2016 , 28, 9169-9180	9.6	71
116	Star-shaped magnetite@gold nanoparticles for protein magnetic separation and SERS detection. <i>RSC Advances</i> , 2014 , 4, 3690-3698	3.7	70
115	Synthesis of multifunctional composite microgels via in situ Ni growth on pNIPAM-coated Au nanoparticles. <i>ACS Nano</i> , 2009 , 3, 3184-90	16.7	69
114	Linear and Nonlinear Optical Response of Silver Nanoprisms: Local Electric Fields of Dipole and Quadrupole Plasmon Resonances. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 8751-8755	3.4	69

113	Au@Ag SERRS tags coupled to a lateral flow immunoassay for the sensitive detection of pneumolysin. <i>Nanoscale</i> , 2017 , 9, 2051-2058	7.7	67
112	Shape control in ZIF-8 nanocrystals and metal nanoparticles@ZIF-8 heterostructures. <i>Nanoscale</i> , 2017 , 9, 16645-16651	7.7	67
111	Spectroscopy, Imaging, and Modeling of Individual Gold Decahedra. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 18623-18631	3.8	63
110	Self-Assembly of Silver Particle Monolayers on Glass from Ag(+) Solutions in DMF. <i>Journal of Colloid and Interface Science</i> , 2000 , 221, 236-241	9.3	62
109	Gold nanoparticles for regulation of cell function and behavior. <i>Nano Today</i> , 2017 , 13, 40-60	17.9	61
108	Multifunctionality in metal@microgel colloidal nanocomposites. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 20-26	13	61
107	Growth of Sharp Tips on Gold Nanowires Leads to Increased Surface-Enhanced Raman Scattering Activity. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 24-7	6.4	60
106	Synthetic Routes and Plasmonic Properties of Noble Metal Nanoplates. <i>European Journal of Inorganic Chemistry</i> , 2010 , 2010, 4288-4297	2.3	60
105	Au@pNIPAM SERRS Tags for Multiplex Immunophenotyping Cellular Receptors and Imaging Tumor Cells. <i>Small</i> , 2015 , 11, 4149-57	11	57
104	Sterilization matters: consequences of different sterilization techniques on gold nanoparticles. <i>Small</i> , 2010 , 6, 89-95	11	56
103	Dispersed and encapsulated gain medium in plasmonic nanoparticles: a multipronged approach to mitigate optical losses. <i>ACS Nano</i> , 2011 , 5, 5823-9	16.7	55
102	Spiked gold beads as substrates for single-particle SERS. <i>ChemPhysChem</i> , 2012 , 13, 2561-5	3.2	53
101	Growth of pentatwinned gold nanorods into truncated decahedra. <i>Nanoscale</i> , 2010 , 2, 2377-83	7.7	52
100	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
99	Imaging Bacterial Interspecies Chemical Interactions by Surface-Enhanced Raman Scattering. <i>ACS Nano</i> , 2017 , 11, 4631-4640	16.7	49
98	Bending contours in silver nanoprisms. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 11796-9	3.4	49
97	Using surface enhanced Raman scattering to analyze the interactions of protein receptors with bacterial quorum sensing modulators. <i>ACS Nano</i> , 2015 , 9, 5567-76	16.7	47
96	Printing gold nanoparticles with an electrohydrodynamic direct-write device 2006 , 39, 48-53		47

95	Dimethylformamide-mediated synthesis of water-soluble platinum nanodendrites for ethanol oxidation electrocatalysis. <i>Nanoscale</i> , 2013 , 5, 4776-84	7.7	46
94	Photoluminescence of Individual Au/CdSe Nanocrystal Complexes with Variable Interparticle Distances. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 2466-2471	6.4	45
93	Seedless Synthesis of Single Crystalline Au Nanoparticles with Unusual Shapes and Tunable LSPR in the near-IR. <i>Chemistry of Materials</i> , 2012 , 24, 1393-1399	9.6	44
92	Plasmonic Supercrystals. <i>Accounts of Chemical Research</i> , 2019 , 52, 1855-1864	24.3	42
91	Acoustic vibrations of metal-dielectric core-shell nanoparticles. <i>Nano Letters</i> , 2011 , 11, 3016-21	11.5	42
90	Microcontainers with fluorescent anisotropic zeolite L cores and isotropic silica shells. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 1266-70	16.4	42
89	Flexible ureasil hybrids with tailored optical properties through doping with metal nanoparticles. <i>Langmuir</i> , 2004 , 20, 10268-72	4	41
88	A general LbL strategy for the growth of pNIPAM microgels on Au nanoparticles with arbitrary shapes. <i>Soft Matter</i> , 2012 , 8, 4165-4170	3.6	40
87	Influence of silver nanoparticles concentration on the alpha- to beta-phase transformation and the physical properties of silver nanoparticles doped poly(vinylidene fluoride) nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 2910-6	1.3	38
86	Pillar[5]arene-mediated synthesis of gold nanoparticles: size control and sensing capabilities. <i>Chemistry - A European Journal</i> , 2014 , 20, 8404-9	4.8	37
85	Effect of the cross-linking density on the thermoresponsive behavior of hollow PNIPAM microgels. <i>Langmuir</i> , 2015 , 31, 1142-9	4	36
84	Thermoresponsive core-shell microgels with silica nanoparticle cores: size, structure, and volume phase transition of the polymer shell. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 6708-16	3.6	35
83	Metallodielectric hollow shells: optical and catalytic properties. <i>Chemistry - an Asian Journal</i> , 2006 , 1, 730-6	4.5	35
82	Governing the morphology of Pt-Au heteronanocrystals with improved electrocatalytic performance. <i>Nanoscale</i> , 2015 , 7, 8739-47	7.7	34
81	Effects of gold nanoparticles on the stability of microbubbles. <i>Langmuir</i> , 2012 , 28, 13808-15	4	34
80	Time-Resolved Investigations of the Cooling Dynamics of Metal Nanoparticles: Impact of Environment. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 12757-12764	3.8	33
79	Growth and branching of gold nanoparticles through mesoporous silica thin films. <i>Nanoscale</i> , 2012 , 4, 931-9	7.7	33
78	SERS-Based Molecularly Imprinted Plasmonic Sensor for Highly Sensitive PAH Detection. <i>ACS Sensors</i> , 2020 , 5, 693-702	9.2	30

77	Plasmonic/magnetic nanocomposites: Gold nanorods-functionalized silica coated magnetic nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2017 , 502, 201-209	9.3	29
76	Flow dichroism as a reliable method to measure the hydrodynamic aspect ratio of gold nanoparticles. <i>ACS Nano</i> , 2011 , 5, 4935-44	16.7	29
75	Nickel nanoparticle-doped paper as a bioactive scaffold for targeted and robust immobilization of functional proteins. <i>ACS Nano</i> , 2014 , 8, 6221-31	16.7	28
74	Biogenic Synthesis of Metal Nanoparticles Using a Biosurfactant Extracted from Corn and Their Antimicrobial Properties. <i>Nanomaterials</i> , 2017 , 7,	5.4	28
73	Fabrication of nano-structured gold films by electrohydrodynamic atomisation. <i>Applied Physics A: Materials Science and Processing</i> , 2008 , 91, 141-147	2.6	28
72	Chemical Sharpening of Gold Nanorods: The Rod-to-Octahedron Transition. <i>Angewandte Chemie</i> , 2007 , 119, 9141-9145	3.6	27
71	Structure and vacancy distribution in copper telluride nanoparticles influence plasmonic activity in the near-infrared. <i>Nature Communications</i> , 2017 , 8, 14925	17.4	26
70	Spatially resolved measurements of plasmonic eigenstates in complex-shaped, asymmetric nanoparticles: gold nanostars. <i>EPJ Applied Physics</i> , 2011 , 54, 33512	1.1	26
69	Au@pNIPAM Colloids as Molecular Traps for Surface-Enhanced, Spectroscopic, Ultra-Sensitive Analysis. <i>Angewandte Chemie</i> , 2009 , 121, 144-149	3.6	26
68	Surface-enhanced Raman scattering (SERS) imaging of bioactive metabolites in mixed bacterial populations. <i>Applied Materials Today</i> , 2019 , 14, 207-215	6.6	26
67	Discrete metal nanoparticles with plasmonic chirality. <i>Chemical Society Reviews</i> , 2021 , 50, 3738-3754	58.5	26
66	Recent Progress in Surface-Enhanced Raman Scattering for the Detection of Chemical Contaminants in Water. <i>Frontiers in Chemistry</i> , 2020 , 8, 478	5	25
65	Shape-Templated Growth of Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 2474-2479	3.8	25
64	CORE-SHELL NANOPARTICLES AND ASSEMBLIES THEREOF 2001 , 189-237		25
63	Pillar[5]arene-Based Supramolecular Plasmonic Thin Films for Label-Free, Quantitative and Multiplex SERS Detection. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 26372-26382	9.5	24
62	Optically active poly(dimethylsiloxane) elastomer films through doping with gold nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 453-8	1.3	23
61	Colloidal Metal-Halide Perovskite Nanoplatelets: Thickness-Controlled Synthesis, Properties and Application in Light-Emitting Diodes. <i>Advanced Materials</i> , 2021 , e2107105	24	23
60	Hydrophilic Pt nanoflowers: synthesis, crystallographic analysis and catalytic performance. <i>CrystEngComm</i> , 2016 , 18, 3422-3427	3.3	23

59	Enhanced electrochemical sensing of polyphenols by an oxygen-mediated surface. <i>RSC Advances</i> , 2015 , 5, 5024-5031	3.7	22
58	The Crystalline Structure of Gold Nanorods Revisited: Evidence for Higher-Index Lateral Facets. <i>Angewandte Chemie</i> , 2010 , 122, 9587-9590	3.6	22
57	Unstable reshaping of gold nanorods prepared by a wet chemical method in the presence of silver nitrate. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 3355-9	1.3	21
56	Surface-Enhanced Raman Scattering Spectroscopy for Label-Free Analysis of Quorum Sensing. <i>Frontiers in Cellular and Infection Microbiology</i> , 2018 , 8, 143	5.9	20
55	Nontoxic impact of PEG-coated gold nanospheres on functional pulmonary surfactant-secreting alveolar type II cells. <i>Nanotoxicology</i> , 2014 , 8, 813-23	5.3	19
54	Fano Interference in the Optical Absorption of an Individual Gold-Silver Nanodimer. <i>Nano Letters</i> , 2016 , 16, 6311-6316	11.5	18
53	Nanoplasmonic Enhancement of the Emission of Semiconductor Polymer Composites. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 16577-16583	3.8	18
52	Symmetry Cancellations in the Quadratic Hyperpolarizability of Non-Centrosymmetric Gold Decahedra. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 874-880	6.4	18
51	Pd nanoparticles as a plasmonic material: synthesis, optical properties and applications. <i>Nanoscale</i> , 2020 , 12, 23424-23443	7.7	18
50	Programmable Modular Assembly of Functional Proteins on Raman-Encoded Zeolitic Imidazolate Framework-8 (ZIF-8) Nanoparticles as SERS Tags. <i>Chemistry of Materials</i> , 2020 , 32, 5739-5749	9.6	17
49	Silver Ions Direct Twin-Plane Formation during the Overgrowth of Single-Crystal Gold Nanoparticles. <i>ACS Omega</i> , 2016 , 1, 177-181	3.9	17
48	Ultrasensitive inkjet-printed based SERS sensor combining a high-performance gold nanosphere ink and hydrophobic paper. <i>Sensors and Actuators B: Chemical</i> , 2020 , 320, 128412	8.5	16
47	Inactivation and adsorption of human carbonic anhydrase II by nanoparticles. <i>Langmuir</i> , 2014 , 30, 9448-56	5.6	15
46	Chemical solution approaches to YBa ₂ Cu ₃ O _{7-δ} -Au nanocomposite superconducting thin films. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 3245-55	1.3	15
45	Light Scattering versus Plasmon Effects: Optical Transitions in Molecular Oxygen near a Metal Nanoparticle. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 15625-15634	3.8	14
44	Static and Dynamic Plasmon-Enhanced Light Scattering from Dispersions of Polymer-Grafted Silver Nanoprisms in the Bulk and Near Solid Surfaces. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 3888-3896	3.8	14
43	Colloidal synthesis of gold semishells. <i>ChemistryOpen</i> , 2012 , 1, 90-5	2.3	14
42	Plasmonic MOF Thin Films with Raman Internal Standard for Fast and Ultrasensitive SERS Detection of Chemical Warfare Agents in Ambient Air. <i>ACS Sensors</i> , 2021 , 6, 2241-2251	9.2	14

41	Integrating Plasmonic Supercrystals in Microfluidics for Ultrasensitive, Label-Free, and Selective Surface-Enhanced Raman Spectroscopy Detection. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 46537-46564	9.5	13
40	Highly porous palladium nanodendrites: wet-chemical synthesis, electron tomography and catalytic activity. <i>Dalton Transactions</i> , 2019 , 48, 3758-3767	4.3	12
39	Screen-printed carbon electrodes doped with TiO ₂ -Au nanocomposites with improved electrocatalytic performance. <i>Materials Today Communications</i> , 2017 , 11, 11-17	2.5	11
38	Screen-printed GPH electrode modified with Ru nanoplates and PoPD polymer film for NADH sensing: Design and characterization. <i>Electrochimica Acta</i> , 2019 , 300, 316-323	6.7	11
37	Microcontainers with Fluorescent Anisotropic Zeolite L Cores and Isotropic Silica Shells. <i>Angewandte Chemie</i> , 2009 , 121, 1292-1296	3.6	11
36	Nanoplasmonically-engineered random lasing in organic semiconductor thin films. <i>Nanoscale Horizons</i> , 2017 , 2, 261-266	10.8	10
35	Iron(II) as a Green Reducing Agent in Gold Nanoparticle Synthesis. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 8295-8302	8.3	10
34	Mapping Surface Plasmons on a Single Metallic Nanoparticle using Sub-nm Resolved EELS Spectrum-Imaging. <i>Microscopy and Microanalysis</i> , 2007 , 13,	0.5	10
33	Advances in Plasmonic Sensing at the NIR-A Review. <i>Sensors</i> , 2021 , 21,	3.8	10
32	Osteogenic effects of simvastatin-loaded mesoporous titania thin films. <i>Biomedical Materials (Bristol)</i> , 2018 , 13, 025017	3.5	9
31	Spectroscopy and High-Resolution Microscopy of Single Nanocrystals by a Focused Ion Beam Registration Method. <i>Angewandte Chemie</i> , 2007 , 119, 3587-3590	3.6	9
30	Reliable methods for silica coating of Au nanoparticles. <i>Methods in Molecular Biology</i> , 2013 , 1025, 75-93	1.4	7
29	Field gradient imaging of nanoparticle systems: analysis of geometry and surface coating effects. <i>Nanotechnology</i> , 2009 , 20, 095708	3.4	7
28	Dimensionality Control of Inorganic and Hybrid Perovskite Nanocrystals by Reaction Temperature: From No-Confinement to 3D and 1D Quantum Confinement. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 26677-26684	16.4	7
27	Plasmonic metal-organic frameworks. <i>SmartMat</i> ,	22.8	7
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