Jorge Perez-Juste

List of Publications by Citations

189 papers	17,198 citations	69 h-index	129 g-index
201 ext. papers	19,283 ext. citations	9 avg, IF	6.66 L-index

#	Paper	IF	Citations
189	Gold nanorods: Synthesis, characterization and applications. *Coordination Chemistry Reviews*, **2005**, 249, 1870-1901	23.2	1640
188	Shape control in gold nanoparticle synthesis. *Chemical Society Reviews*, **2008**, 37, 1783-91	58.5	1571
187	Present and Future of Surface-Enhanced Raman Scattering. *ACS Nano*, **2020**, 14, 28-117	16.7	1000
186	Recent progress on silica coating of nanoparticles and related nanomaterials. *Advanced Materials*, **2010**, 22, 1182-95	24	613
185	Electric-Field-Directed Growth of Gold Nanorods in Aqueous Surfactant Solutions. *Advanced Functional Materials*, **2004**, 14, 571-579	15.6	504
184	Silica-Coating and Hydrophobation of CTAB-Stabilized Gold Nanorods. *Chemistry of Materials*, **2006**, 18, 2465-2467	9.6	347
183	Synthesis and Optical Properties of Gold Nanodecahedra with Size Control. *Advanced Materials*, **2006**, 18, 2529-2534	24	329
182	Seeded growth of submicron Au colloids with quadrupole plasmon resonance modes. *Langmuir*, **2006**, 22, 7007-10	4	316
181	Spatially-directed oxidation of gold nanoparticles by Au(III)-CTAB complexes. *Journal of Physical Chemistry B*, **2005**, 109, 14257-61	3.4	289
180	Au@pNIPAM colloids as molecular traps for surface-enhanced, spectroscopic, ultra-sensitive analysis. *Angewandte Chemie - International Edition*, **2009**, 48, 138-43	16.4	263
179	Hydrophobic interactions modulate self-assembly of nanoparticles. *ACS Nano*, **2012**, 6, 11059-65	16.7	257
178	Size tunable Au@Ag core-shell nanoparticles: synthesis and surface-enhanced Raman scattering properties. *Langmuir*, **2013**, 29, 15076-82	4	255
177	Contributions from radiation damping and surface scattering to the linewidth of the longitudinal plasmon band of gold nanorods: a single particle study. *Physical Chemistry Chemical Physics*, **2006**, 8, 3540-6	3.6	253
176	A "Tips and Tricks" Practical Guide to the Synthesis of Gold Nanorods. *Journal of Physical Chemistry Letters*, **2015**, 6, 4270-9	6.4	251
175	Nanorod-coated PNIPAM microgels: thermoresponsive optical properties. *Small*, **2007**, 3, 1222-9	11	240
174	Encapsulation and Growth of Gold Nanoparticles in Thermoresponsive Microgels. *Advanced Materials*, **2008**, 20, 1666-1670	24	234
173	Optical Control and Patterning of Gold-Nanorod-Poly(vinyl alcohol) Nanocomposite Films. *Advanced Functional Materials*, **2005**, 15, 1065-1071	15.6	234

172	Detection and imaging of quorum sensing in Pseudomonas aeruginosa biofilm communities by surface-enhanced resonance Raman scattering. *Nature Materials*, **2016**, 15, 1203-1211	27	222
171	Aligning Au nanorods by using carbon nanotubes as templates. *Angewandte Chemie - International Edition*, **2005**, 44, 4375-8	16.4	216
170	Gemini-surfactant-directed self-assembly of monodisperse gold nanorods into standing superlattices. *Angewandte Chemie - International Edition*, **2009**, 48, 9484-8	16.4	192
169	Optical sensing of biological, chemical and ionic species through aggregation of plasmonic nanoparticles. *Journal of Materials Chemistry C*, **2014**, 2, 7460	7.1	177
168	Highly controlled silica coating of PEG-capped metal nanoparticles and preparation of SERS-encoded particles. *Langmuir*, **2009**, 25, 13894-9	4	176
167	Gold nanoparticle-loaded filter paper: a recyclable dip-catalyst for real-time reaction monitoring by surface enhanced Raman scattering. *Chemical Communications*, **2015**, 51, 4572-5	5.8	154
166	Catalysis by [email´protected] Nanocomposites: Effect of the Cross-Linking Density. *Chemistry of Materials*, **2010**, 22, 3051-3059	9.6	152
165	Size-dependent surface plasmon resonance broadening in nonspherical nanoparticles: single gold nanorods. *Nano Letters*, **2013**, 13, 2234-40	11.5	147
164	Au@pNIPAM Thermosensitive Nanostructures: Control over Shell Cross-linking, Overall Dimensions, and Core Growth. *Advanced Functional Materials*, **2009**, 19, 3070-3076	15.6	136
163	The crystalline structure of gold nanorods revisited: evidence for higher-index lateral facets. *Angewandte Chemie - International Edition*, **2010**, 49, 9397-400	16.4	131
162	Drastic Surface Plasmon Mode Shifts in Gold Nanorods Due to Electron Charging. *Plasmonics*, **2006**, 1, 61-66	2.4	129
161	Au@Ag Nanoparticles: Halides Stabilize {100} Facets. *Journal of Physical Chemistry Letters*, **2013**, 4, 2209-2216	6.4	126
160	Modulation of Localized Surface Plasmons and SERS Response in Gold Dumbbells through Silver Coating. *Journal of Physical Chemistry C*, **2010**, 114, 10417-10423	3.8	118
159	Chemical sharpening of gold nanorods: the rod-to-octahedron transition. *Angewandte Chemie - International Edition*, **2007**, 46, 8983-7	16.4	117
158	Plasmonic polymer nanocomposites. *Nature Reviews Materials*, **2018**, 3, 375-391	73.3	117
157	Influence of Iodide Ions on the Growth of Gold Nanorods: Tuning Tip Curvature and Surface Plasmon Resonance. *Advanced Functional Materials*, **2008**, 18, 3780-3786	15.6	112
156	Binary self-assembly of gold nanowires with nanospheres and nanorods. *Angewandte Chemie - International Edition*, **2010**, 49, 9985-9	16.4	111
155	Multiresponsive hybrid colloids based on gold nanorods and poly(NIPAM-co-allylacetic acid) microgels: temperature- and pH-tunable plasmon resonance. *Langmuir*, **2009**, 25, 3163-7	4	110

154	Optical Properties of Platinum-Coated Gold Nanorods. *Journal of Physical Chemistry C*, **2007**, 111, 6183-6188	3.8	110
153	Influence of silver ions on the growth mode of platinum on gold nanorods. *Journal of Materials Chemistry*, **2006**, 16, 3946-3951		110
152	Optical properties of metal nanoparticle coated silica spheres: a simple effective medium approach. *Physical Chemistry Chemical Physics*, **2004**, 6, 5056-5060	3.6	110
151	Metal nanoparticles and supramolecular macrocycles: a tale of synergy. *Chemistry - A European Journal*, **2014**, 20, 10874-83	4.8	108
150	Plasmon coupling in layer-by-layer assembled gold nanorod films. *Langmuir*, **2007**, 23, 4606-11	4	108
149	The effect of surface roughness on the plasmonic response of individual sub-micron gold spheres. *Physical Chemistry Chemical Physics*, **2009**, 11, 5909-14	3.6	107
148	Modeling the Optical Response of Highly Faceted Metal Nanoparticles with a Fully 3D Boundary Element Method. *Advanced Materials*, **2008**, 20, 4288-4293	24	103
147	Nanocrystal engineering of noble metals and metal chalcogenides: controlling the morphology, composition and crystallinity. *CrystEngComm*, **2015**, 17, 3727-3762	3.3	100
146	Seeded Growth Synthesis of Gold Nanotriangles: Size Control, SAXS Analysis, and SERS Performance. *ACS Applied Materials & Interfaces*, **2018**, 10, 11152-11163	9.5	99
145	Protein/Polymer-Based Dual-Responsive Gold Nanoparticles with pH-Dependent Thermal Sensitivity. *Advanced Functional Materials*, **2012**, 22, 1436-1444	15.6	97
144	Reshaping and LSPR tuning of Au nanostars in the presence of CTAB. *Journal of Materials Chemistry* , **2011**, 21, 11544		97
143	Highly transparent and conductive films of densely aligned ultrathin Au nanowire monolayers. *Nano Letters*, **2012**, 12, 6066-70	11.5	96
142	Chemical seeded growth of Ag nanoparticle arrays and their application as reproducible SERS substrates. *Nano Today*, **2010**, 5, 21-27	17.9	96
141	Encapsulation of Single Plasmonic Nanoparticles within ZIF-8 and SERS Analysis of the MOF Flexibility. *Small*, **2016**, 12, 3935-43	11	96
140	Self-Assembly of Au@Ag Nanorods Mediated by Gemini Surfactants for Highly Efficient SERS-Active Supercrystals. *Advanced Optical Materials*, **2013**, 1, 477-481	8.1	91
139	Multifunctional microgel magnetic/optical traps for SERS ultradetection. *Langmuir*, **2011**, 27, 4520-5	4	91
138	Crystal structure dependence of the elastic constants of gold nanorods. *Journal of Materials Chemistry*, **2006**, 16, 3957		91
137	The Effect of Silica Coating on the Optical Response of Sub-micrometer Gold Spheres. *Journal of Physical Chemistry C*, **2007**, 111, 13361-13366	3.8	90

136	Gold Nanorod-pNIPAM Hybrids with Reversible Plasmon Coupling: Synthesis, Modeling, and SERS Properties. *ACS Applied Materials & Interfaces*, **2015**, 7, 12530-8	9.5	87
135	Colloidal gold-catalyzed reduction of ferrocyanate (III) by borohydride ions: a model system for redox catalysis. *Langmuir*, **2010**, 26, 1271-7	4	86
134	Heating rate influence on the synthesis of iron oxide nanoparticles: the case of decanoic acid. *Chemical Communications*, **2010**, 46, 6108-10	5.8	83
133	Rapid epitaxial growth of Ag on Au nanoparticles: from Au nanorods to core-shell Au@Ag octahedrons. *Chemistry - A European Journal*, **2010**, 16, 5558-63	4.8	79
132	Steric hindrance induces crosslike self-assembly of gold nanodumbbells. *Nano Letters*, **2012**, 12, 4380-4	11.5	78
131	Optical gas sensing of TiO2 and TiO2/Au nanocomposite thin films. *Sensors and Actuators B: Chemical*, **2008**, 132, 107-115	8.5	78
130	Gold Nanooctahedra with Tunable Size and Microfluidic-Induced 3D Assembly for Highly Uniform SERS-Active Supercrystals. *Chemistry of Materials*, **2015**, 27, 8310-8317	9.6	75
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128	Ordered arrays of gold nanostructures from interfacially assembled Au@PNIPAM hybrid nanoparticles. *Langmuir*, **2012**, 28, 8985-93	4	75
127	Quasi-Epitaxial Growth of Ni Nanoshells on Au Nanorods. *Advanced Materials*, **2007**, 19, 2262-2266	24	75
126	Palladium Nanoparticle-Loaded Cellulose Paper: A Highly Efficient, Robust, and Recyclable Self-Assembled Composite Catalytic System. *Journal of Physical Chemistry Letters*, **2015**, 6, 230-8	6.4	74
125	Growing Au/Ag nanoparticles within microgel colloids for improved surface-enhanced Raman scattering detection. *Chemistry - A European Journal*, **2010**, 16, 9462-7	4.8	72
124	Plasmonic [email´protected] Nanorods with Boosted Refractive Index Susceptibility and SERS Efficiency: A Multifunctional Platform for Hydrogen Sensing and Monitoring of Catalytic Reactions. *Chemistry of Materials*, **2016**, 28, 9169-9180	9.6	71
123	Evidence for Hydrogen-Bonding-Directed Assembly of Gold Nanorods in Aqueous Solution. *Journal of Physical Chemistry Letters*, **2010**, 1, 1181-1185	6.4	69
122	Reversible assembly of metal nanoparticles induced by penicillamine. Dynamic formation of SERS hot spots. *Journal of Materials Chemistry*, **2011**, 21, 16880		69
121	Synthesis of multifunctional composite microgels via in situ Ni growth on pNIPAM-coated Au nanoparticles. *ACS Nano*, **2009**, 3, 3184-90	16.7	69
120	Silica gels with tailored, gold nanorod-driven optical functionalities. *Applied Surface Science*, **2004**, 226, 137-143	6.7	68
119	Determination of the Elastic Constants of Gold Nanorods Produced by Seed Mediated Growth. *Nano Letters*, **2004**, 4, 2493-2497	11.5	68

118	Au@Ag SERRS tags coupled to a lateral flow immunoassay for the sensitive detection of pneumolysin. *Nanoscale*, **2017**, 9, 2051-2058	7.7	67
117	Shape control in ZIF-8 nanocrystals and metal nanoparticles@ZIF-8 heterostructures. *Nanoscale*, **2017**, 9, 16645-16651	7.7	67
116	Spectroscopy, Imaging, and Modeling of Individual Gold Decahedra. *Journal of Physical Chemistry C*, **2009**, 113, 18623-18631	3.8	63
115	Gold nanoparticles for regulation of cell function and behavior. *Nano Today*, **2017**, 13, 40-60	17.9	61
114	Supported Pd Nanoparticles for Carbon□Carbon Coupling Reactions. *Topics in Catalysis*, **2013**, 56, 1154-1179	2.9	61
113	Multifunctionality in metal@microgel colloidal nanocomposites. *Journal of Materials Chemistry A*, **2013**, 1, 20-26	13	61
112	Growth of Sharp Tips on Gold Nanowires Leads to Increased Surface-Enhanced Raman Scattering Activity. *Journal of Physical Chemistry Letters*, **2010**, 1, 24-7	6.4	60
111	Magnetic□Noble Metal Nanocomposites with Morphology-Dependent Optical Response. *Chemistry of Materials*, **2007**, 19, 4415-4422	9.6	59
110	Au@pNIPAM SERRS Tags for Multiplex Immunophenotyping Cellular Receptors and Imaging Tumor Cells. *Small*, **2015**, 11, 4149-57	11	57
109	Micellization versus Cyclodextrin-Surfactant Complexation Financial support from the Direcci□ General de Ense□anza Superior of Spain (project PB96-0954) and Xunta de Galicia (project PGIDT99 PXI30104B) is gratefully acknowledged. J. P.-J. wishes to thank the Ministerio de Educaci□ y Cultura for a F.P.U. fellowship. *Angewandte Chemie - International Edition*, **2000**, 39, 2945-2948	16.4	55
108	Growth of pentatwinned gold nanorods into truncated decahedra. *Nanoscale*, **2010**, 2, 2377-83	7.7	52
107	Imaging Bacterial Interspecies Chemical Interactions by Surface-Enhanced Raman Scattering. *ACS Nano*, **2017**, 11, 4631-4640	16.7	49
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103	Basic hydrolysis of crystal violet in beta-cyclodextrin/surfactant mixed systems. *Langmuir*, **2004**, 20, 606-13	4	46
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101	Acoustic Vibrations in Bimetallic Au@Pd Core-Shell Nanorods. *Journal of Physical Chemistry Letters*, **2012**, 3, 613-9	6.4	45

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99	Seedless Synthesis of Single Crystalline Au Nanoparticles with Unusual Shapes and Tunable LSPR in the near-IR. *Chemistry of Materials*, **2012**, 24, 1393-1399	9.6	44
98	Plasmonic Supercrystals. *Accounts of Chemical Research*, **2019**, 52, 1855-1864	24.3	42
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95	Investigation of Micellar Media Containing Cyclodextrins by Means of Reaction Kinetics: Basic Hydrolysis of N-Methyl-N-nitroso-p-toluenesulfonamide. *Journal of Physical Chemistry B*, **1997**, 101, 7383-7389	3.4	40
94	Tuning the Morphology and Chiroptical Properties of Discrete Gold Nanorods with Amino Acids. *Angewandte Chemie - International Edition*, **2018**, 57, 16452-16457	16.4	39
93	Plasmon Mapping in Au@Ag Nanocube Assemblies. *Journal of Physical Chemistry C*, **2014**, 118, 15356-15362	4.8	38
92	Pillar[5]arene-mediated synthesis of gold nanoparticles: size control and sensing capabilities. *Chemistry - A European Journal*, **2014**, 20, 8404-9	4.8	37
91	Effect of the cross-linking density on the thermoresponsive behavior of hollow PNIPAM microgels. *Langmuir*, **2015**, 31, 1142-9	4	36
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88	Governing the morphology of Pt-Au heteronanocrystals with improved electrocatalytic performance. *Nanoscale*, **2015**, 7, 8739-47	7.7	34
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84	Effects of Alkylamines on the Percolation Phenomena in Water/AOT/Isooctane Microemulsions. *Journal of Colloid and Interface Science*, **2000**, 225, 259-264	9.3	31
83	Basic Hydrolysis of m-Nitrophenyl Acetate in Micellar Media Containing Cyclodextrins. *Journal of Physical Chemistry B*, **1998**, 102, 4581-4587	3.4	31

82	SERS-Based Molecularly Imprinted Plasmonic Sensor for Highly Sensitive PAH Detection. *ACS Sensors*, **2020**, 5, 693-702	9.2	30
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79	Plasmonic/magnetic nanocomposites: Gold nanorods-functionalized silica coated magnetic nanoparticles. *Journal of Colloid and Interface Science*, **2017**, 502, 201-209	9.3	29
78	Flow dichroism as a reliable method to measure the hydrodynamic aspect ratio of gold nanoparticles. *ACS Nano*, **2011**, 5, 4935-44	16.7	29
77	Comparative study of nitroso group transfer in colloidal aggregates: micelles, vesicles and microemulsions. *New Journal of Chemistry*, **2003**, 27, 372-380	3.6	29
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67	Aligning Au Nanorods by Using Carbon Nanotubes as Templates. *Angewandte Chemie*, **2005**, 117, 4449-4452	3.6	25
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61	Colloidal Metal-Halide Perovskite Nanoplatelets: Thickness-Controlled Synthesis, Properties and Application in Light-Emitting Diodes. *Advanced Materials*, **2021**, e2107105	24	23
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