

Eduardo A Coronado

List of Publications by Year in descending order

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79
papers

11,287
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279487

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#	ARTICLE	IF	CITATIONS
1	In Situ Preparation of Plasmonic Gold Nanoparticle-Supramolecular Hydrogel Nanocomposites with Tunable Optical Properties: Correlating Theory and Experiments. <i>Journal of Physical Chemistry C</i> , 2022, 126, 9979-9988.	1.5	3
2	Simple Approach to Assess the Maximum Hot Spot SERS Enhancement Factors in Colloidal Dispersions of Gold Nanoparticle Aggregates. <i>Journal of Physical Chemistry C</i> , 2022, 126, 10524-10533.	1.5	4
3	Triggering gold nanoparticles formation on a quartz surface by nanosecond pulsed laser irradiation. <i>RSC Advances</i> , 2021, 11, 22419-22425.	1.7	1
4	A New Figure of Merit to Assess the SERS Enhancement Factor of Colloidal Gold Nanoparticle Aggregates. <i>Journal of Physical Chemistry C</i> , 2021, 125, 4056-4065.	1.5	12
5	Optical Properties of Silica-Coated Au Nanorods: Correlating Theory and Experiments for Determining the Shell Porosity. <i>Journal of Physical Chemistry C</i> , 2021, 125, 15516-15526.	1.5	9
6	Colloidal gold clusters formation and chemometrics for direct SERS determination of bioanalytes in complex media. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 224, 117380.	2.0	20
7	Colloidal SERS Substrate for the Ultrasensitive Detection of Biotinylated Antibodies Based on Near-Field Gradient within the Gap of Au Nanoparticle Dimers. <i>Journal of Physical Chemistry C</i> , 2019, 123, 23577-23585.	1.5	16
8	A Plasmonic Approach to Study Protein Interaction Kinetics through the Dimerization of Functionalized Ag Nanoparticles. <i>Scientific Reports</i> , 2019, 9, 13122.	1.6	2
9	Near-Field Enhancement Contribution to the Photoactivity in Magnetite@Gold Hybrid Nanostructures. <i>Journal of Physical Chemistry C</i> , 2019, 123, 29891-29899.	1.5	6
10	Remarkable effect of the dithiafulvene structures on their capacity as reducing agents: Influence of conjugated thiocarbonyl group. <i>Applied Surface Science</i> , 2019, 465, 1061-1065.	3.1	1
11	Enzyme-Free Immunoassay Using Silver Nanoparticles for Detection of Gliadin at Ultralow Concentrations. <i>ACS Omega</i> , 2018, 3, 2340-2350.	1.6	12
12	Nanoparticle@cell interactions induced apoptosis: a case study with nanoconjugated epidermal growth factor. <i>Nanoscale</i> , 2018, 10, 6712-6723.	2.8	14
13	Keys for Designing Hematite/Plasmonic Metal Hybrid Nanostructures with Enhanced Photoactive Properties. <i>Journal of Physical Chemistry C</i> , 2018, 122, 4589-4599.	1.5	8
14	Gold decoration of silica by decomposition of aqueous gold(ⁱⁱⁱ) hydroxide at low temperatures. <i>RSC Advances</i> , 2018, 8, 19979-19989.	1.7	4
15	Plasmonic sensing through bioconjugation of Ag nanoparticles: Towards the development of immunoassays for ultralow quantification of antigens in colloidal dispersions. <i>Advanced Materials Letters</i> , 2018, 9, 456-461.	0.3	1
16	Plasmon enhanced light absorption in aluminium@Hematite core shell hybrid nanocylinders: the critical role of length. <i>RSC Advances</i> , 2017, 7, 2857-2868.	1.7	10
17	Silver nanoparticles from leafy green extract of Belgian endive (<i>Cichorium intybus</i> L. var. <i>sativus</i>): Biosynthesis, characterization, and antibacterial activity. <i>Materials Letters</i> , 2017, 197, 98-101.	1.3	25
18	High performance preconcentration of inorganic Se species by dispersive micro-solid phase extraction with a nanosilica-ionic liquid hybrid material. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 138, 23-30.	1.5	20

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19	Design of plasmonic probes through bioconjugation and their applications in biomedicine. , 2016, , 131-161.		4
20	Design of a novel plasmonic nanoconjugated analytical tool for ultrasensitive antigen quantification. Nanoscale, 2016, 8, 17169-17180.	2.8	9
21	Spaser and Optical Amplification Conditions in Gold-Coated Active Nanoparticles. Journal of Physical Chemistry C, 2016, 120, 24941-24949.	1.5	18
22	Size Optimization of Iron Oxide@Noble Metal Core-shell Nanohybrids for Photothermal Applications. Journal of Physical Chemistry C, 2016, 120, 5630-5639.	1.5	24
23	Ferroplasmons: Novel Plasmons in Metal-Ferromagnetic Bimetallic Nanostructures. Microscopy and Microanalysis, 2015, 21, 2381-2382.	0.2	2
24	Gold nucleation inhibition by halide ions: a basis for a seed-mediated approach. RSC Advances, 2015, 5, 19329-19336.	1.7	9
25	Synthesis of gold nanoparticles using electron-donating dithiafulvene units. Tetrahedron Letters, 2015, 56, 4871-4876.	0.7	3
26	Au@ZnO hybrid nanostructures: correlation between morphology and optical response. RSC Advances, 2015, 5, 56210-56218.	1.7	2
27	Toward the Design of Highly Stable Small Colloidal SERS Substrates with Supramolecular Host-guest Interactions for Ultrasensitive Detection. Journal of Physical Chemistry C, 2015, 119, 8876-8888.	1.5	30
28	Morphological evolution of noble metal nanoparticles in chloroform: mechanism of switching on/off by protic species. RSC Advances, 2015, 5, 100488-100497.	1.7	4
29	One-step/one-pot decoration of oxide microparticles with silver nanoparticles. Journal of Colloid and Interface Science, 2014, 428, 32-35.	5.0	3
30	Plasmonic Interactions: From Molecular Plasmonics and Fano Resonances to Ferroplasmons. ACS Nano, 2014, 8, 9723-9728.	7.3	24
31	Detecting organic molecules using Au nanoparticle dimers with supramolecular interactions. , 2014, , .		0
32	Identification, Localization, and Quantification of Neuronal Cell Membrane Receptors with Plasmonic Probes: Role of Protein Kinase D1 in Their Distribution. ACS Nano, 2014, 8, 8942-8958.	7.3	17
33	Exploring the benefits of electron tomography to characterize the precise morphology of core-shell Au@Ag nanoparticles and its implications on their plasmonic properties. Nanoscale, 2014, 6, 12696-12702.	2.8	16
34	Tailoring Optical Fields Emitted by Subwavelength Nanometric Sources. Plasmonics, 2014, 9, 925-934.	1.8	6
35	Quantitative Understanding of the Optical Properties of a Single, Complex-Shaped Gold Nanoparticle from Experiment and Theory. ACS Nano, 2014, 8, 4395-4402.	7.3	31
36	Synthesis of Ag@ZnO core-shell hybrid nanostructures: an optical approach to reveal the growth mechanism. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	16

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37	Cluster Size Effects in the Surface-Enhanced Raman Scattering Response of Ag and Au Nanoparticle Aggregates: Experimental and Theoretical Insight. <i>Journal of Physical Chemistry C</i> , 2013, 117, 23090-23107.	1.5	82
38	The Structure, Energy, Confinement, and Enhancement of Hot Spots between Two Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2013, 117, 7744-7750.	1.5	9
39	Chemical and Electrochemical Oxidation of Silicon Surfaces Functionalized with APTES: The Role of Surface Roughness in the AuNPs Anchoring Kinetics. <i>Journal of Physical Chemistry C</i> , 2013, 117, 11317-11327.	1.5	30
40	Retrieving the spatial distribution of cavity modes in ZnO nanowires by near-field imaging and electrodynamic simulations. , 2013, , .		0
41	Quantum dynamical simulations of local field enhancement in metal nanoparticles. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 125304.	0.7	23
42	Dendritic Chemistry Applied to the Construction of Tailored Functional Nanomaterials: Synthesis and Characterization of Gold Nanoparticle-Cored Dendrimers (NCDs). <i>Current Organic Chemistry</i> , 2013, 17, 943-955.	0.9	4
43	When Nanoparticle Size and Molecular Geometry Matter: Analyzing the Degree of Surface Functionalization of Gold Nanoparticles with Sulfur Heterocyclic Compounds. <i>Journal of Physical Chemistry C</i> , 2012, 116, 6520-6529.	1.5	35
44	Excitation-Transfer Plasmonic Nanosensors Based on Dynamical Phase Transitions. <i>Journal of Physical Chemistry C</i> , 2012, 116, 18937-18943.	1.5	3
45	Retrieving the spatial distribution of cavity modes in dielectric resonators by near-field imaging and electrodynamic simulations. <i>Nanoscale</i> , 2012, 4, 1620.	2.8	3
46	Rational Design of Plasmonic Nanostructures for Biomolecular Detection: Interplay between Theory and Experiments. <i>ACS Nano</i> , 2012, 6, 3441-3452.	7.3	47
47	Preparation of controlled gold nanoparticle aggregates using a dendronization strategy. <i>Journal of Colloid and Interface Science</i> , 2012, 384, 10-21.	5.0	10
48	Silver oxide particles/silver nanoparticles interconversion: susceptibility of forward/backward reactions to the chemical environment at room temperature. <i>RSC Advances</i> , 2012, 2, 2923.	1.7	78
49	Understanding the Behavior of New Plasmonic Probes with Sub-Nanometric Resolution in Field Enhanced Scanning Optical Microscopy. <i>Journal of Physical Chemistry C</i> , 2011, 115, 10455-10461.	1.5	4
50	Optical properties of metallic nanoparticles: manipulating light, heat and forces at the nanoscale. <i>Nanoscale</i> , 2011, 3, 4042.	2.8	228
51	Near Field Enhancement in Ag Au Nanospheres Heterodimers. <i>Journal of Physical Chemistry C</i> , 2011, 115, 15908-15914.	1.5	44
52	Buffering plasmons in nanoparticle waveguides at the virtual-localized transition. <i>Physical Review B</i> , 2010, 82, .	1.1	19
53	Using Highly Accurate 3D Nanometrology to Model the Optical Properties of Highly Irregular Nanoparticles: A Powerful Tool for Rational Design of Plasmonic Devices. <i>Nano Letters</i> , 2010, 10, 2097-2104.	4.5	54
54	On the Far Field Optical Properties of Ag ⁺ Au Nanosphere Pairs. <i>Journal of Physical Chemistry C</i> , 2010, 114, 16278-16284.	1.5	46

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55	Plasmon Coupling in Silver Nanosphere Pairs. <i>Journal of Physical Chemistry C</i> , 2010, 114, 3918-3923.	1.5	101
56	3D imaging of nanomaterials by discrete tomography. <i>Ultramicroscopy</i> , 2009, 109, 730-740.	0.8	255
57	Enhancement and Confinement Analysis of The Electromagnetic Fields Inside Hot Spots. <i>Journal of Physical Chemistry C</i> , 2009, 113, 6315-6319.	1.5	24
58	Near-Field Enhancement of Multipole Plasmon Resonances in Ag and Au Nanowires. <i>Journal of Physical Chemistry A</i> , 2009, 113, 4489-4497.	1.1	43
59	Plasmonic Nanoantennas: Angular Scattering Properties of Multipole Resonances in Noble Metal Nanorods. <i>Journal of Physical Chemistry C</i> , 2008, 112, 9586-9594.	1.5	49
60	Hydroquinone Synthesis of Silver Nanoparticles: A Simple Model Reaction To Understand the Factors That Determine Their Nucleation and Growth. <i>Crystal Growth and Design</i> , 2008, 8, 1377-1383.	1.4	31
61	3D characterization and metrology of nanostructures by electron tomography. <i>Microscopy and Microanalysis</i> , 2008, 14, 284-285.	0.2	1
62	STEM electron tomography of gold nanostructures. , 2008, , 311-312.		1
63	Building transition probabilities for any condition using reduced cumulative energy transfer functions in H ₂ O-H ₂ O collisions. <i>Journal of Chemical Physics</i> , 2007, 126, 124305.	1.2	1
64	Accounting for the dependence of P(E→E) on the maximum impact parameter in classical trajectory calculations: Application to the H ₂ O-H ₂ O collisional relaxation. <i>Journal of Chemical Physics</i> , 2007, 127, 154305.	1.2	2
65	Resonance Conditions for Multipole Plasmon Excitations in Noble Metal Nanorods. <i>Journal of Physical Chemistry C</i> , 2007, 111, 16796-16801.	1.5	84
66	Second virial coefficients of water beyond the conventional first-order quantum correction. <i>Chemical Physics Letters</i> , 2005, 405, 203-207.	1.2	7
67	Fitting complex potential energy surfaces to simple model potentials: Application of the simplex-annealing method. <i>Journal of Computational Chemistry</i> , 2005, 26, 523-531.	1.5	3
68	The Optical Properties of Metal Nanoparticles: The Influence of Size, Shape, and Dielectric Environment. <i>Journal of Physical Chemistry B</i> , 2003, 107, 668-677.	1.2	9,036
69	Surface plasmon broadening for arbitrary shape nanoparticles: A geometrical probability approach. <i>Journal of Chemical Physics</i> , 2003, 119, 3926-3934.	1.2	395
70	Some New Classical and Semiclassical Models for Describing Tunneling Processes with Real-Valued Classical Trajectories. <i>Journal of Physical Chemistry B</i> , 2001, 105, 6574-6578.	1.2	14
71	Ultrafast non-adiabatic dynamics of systems with multiple surface crossings: a test of the Meyer-Miller Hamiltonian with semiclassical initial value representation methods. <i>Chemical Physics Letters</i> , 2001, 349, 521-529.	1.2	36
72	Nonadiabatic photodissociation dynamics of ICN in the \tilde{A}^1 continuum: A semiclassical initial value representation study. <i>Journal of Chemical Physics</i> , 2000, 112, 5566-5575.	1.2	65

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73	Collisional relaxation of highly vibrationally excited CF ₂ O prepared with different initial energies and distribution functions. <i>Journal of Chemical Physics</i> , 1999, 110, 1942-1948.	1.2	1
74	Trajectory Calculations of Intermolecular Energy Transfer in H ₂ O + Ar Collisions. <i>Journal of Physical Chemistry A</i> , 1999, 103, 5409-5415.	1.1	9
75	IR laser photochemistry: Selective geometrical isomerization and collisional relaxation of cis-1,2-dichloro-1,2-difluoroethene. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1998, 114, 89-94.	2.0	1
76	Collisional Relaxation of Highly Vibrationally Excited cis-CFCCFCl Prepared by Multiphoton Excitation. <i>Journal of Physical Chemistry A</i> , 1997, 101, 9603-9609.	1.1	8
77	Evolution of the moments and transition probability models in energy transfer processes. <i>Chemical Physics Letters</i> , 1996, 257, 674-680.	1.2	7
78	Dependence of the collisional relaxation of highly vibrationally excited polyatomic molecules on the population distribution function. <i>Chemical Physics Letters</i> , 1994, 227, 164-169.	1.2	8
79	Multiphoton geometrical isomerization of ClFC=CFCl. Selective purification of the trans isomer. <i>Journal of Chemical Sciences</i> , 1991, 103, 455-457.	0.7	0