

Jian Zhu

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

1,066
citations

331670

21
h-index

434195

31
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48
all docs

48
docs citations

48
times ranked

1324
citing authors

#	ARTICLE	IF	CITATIONS
1	Growth of Spherical Gold Satellites on the Surface of Au@Ag@SiO ₂ Core-Shell Nanostructures Used for an Ultrasensitive SERS Immunoassay of Alpha-Fetoprotein. ACS Applied Materials & Interfaces, 2019, 11, 3617-3626.	8.0	72
2	Surface Plasmon Resonance from Bimetallic Interface in Au@Ag Core-Shell Structure Nanowires. Nanoscale Research Letters, 2009, 4, 977-981.	5.7	71
3	Theoretical study of the light scattering from gold nanotubes: Effects of wall thickness. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 454-455, 685-689.	5.6	47
4	Colorimetric determination of Hg(II) by combining the etching and aggregation effect of cysteine-modified Au-Ag core-shell nanorods. Sensors and Actuators B: Chemical, 2018, 255, 2927-2935.	7.8	46
5	Improve the surface enhanced Raman scattering of gold nanorods decorated graphene oxide: The effect of CTAB on the electronic transition. Applied Surface Science, 2015, 347, 856-860.	6.1	42
6	A colorimetric/SERS dual-mode sensing method for the detection of mercury(II) based on rhodanine-stabilized gold nanobipyramids. Journal of Materials Chemistry C, 2018, 6, 12283-12293.	5.5	42
7	Optimization of Three-Layered Au@Ag Bimetallic Nanoshells for Triple-Bands Surface Plasmon Resonance. Journal of Physical Chemistry C, 2012, 116, 11734-11740.	3.1	40
8	Specific Detection of Carcinoembryonic Antigen Based on Fluorescence Quenching of Hollow Porous Gold Nanoshells with Roughened Surface. ACS Applied Materials & Interfaces, 2017, 9, 36632-36641.	8.0	40
9	Modification-free colorimetric and visual detection of Hg ²⁺ based on the etching from core-shell structural Au-Ag nanorods to nanorices. Sensors and Actuators B: Chemical, 2018, 267, 181-190.	7.8	38
10	SERS detection of glucose using graphene-oxide-wrapped gold nanobones with silver coating. Journal of Materials Chemistry C, 2019, 7, 3322-3334.	5.5	38
11	Improve the refractive index sensitivity of gold nanotube by reducing the restoring force of localized surface plasmon resonance. Sensors and Actuators B: Chemical, 2011, 155, 843-847.	7.8	37
12	A SERS-based immunoassay for the detection of α -fetoprotein using AuNS@Ag@SiO ₂ core-shell nanostars. Journal of Materials Chemistry C, 2019, 7, 8432-8441.	5.5	35
13	Multi-branch Au/Ag bimetallic core-shell-satellite nanoparticles as a versatile SERS substrate: the effect of Au branches in a mesoporous silica interlayer. Journal of Materials Chemistry C, 2017, 5, 12678-12687.	5.5	34
14	Composition-Dependent Plasmon Shift in Au@Ag Alloy Nanotubes: Effect of Local Field Distribution. Journal of Physical Chemistry C, 2009, 113, 3164-3167.	3.1	31
15	Multi-mode optical detection of iodide based on the etching of silver-coated gold nanobipyramids. Sensors and Actuators B: Chemical, 2017, 253, 612-620.	7.8	31
16	Fluorescence turn-on sensing of trace cadmium ions based on EDTA-etched CdTe@CdS quantum dot. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 201, 119-127.	3.9	28
17	Detecting glucose by using the Raman scattering of oxidized ascorbic acid: The effect of graphene oxide-gold nanorod hybrid. Sensors and Actuators B: Chemical, 2016, 235, 663-669.	7.8	27
18	Gold nanotubes: synthesis, properties and biomedical applications. Mikrochimica Acta, 2020, 187, 612.	5.0	25

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19	Gold nanoring core-shell satellites with abundant built-in hotspots and great analyte penetration: An immunoassay platform for the SERS/fluorescence-based detection of carcinoembryonic antigen. <i>Chemical Engineering Journal</i> , 2021, 409, 128173.	12.7	25
20	Local environment dependent linewidth of plasmon absorption in gold nanoshell: Effects of local field polarization. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	24
21	Tuning the surface enhanced Raman scattering performance of anisotropic Au core@Ag shell hetero-nanostructure: The effect of core geometry. <i>Journal of Alloys and Compounds</i> , 2019, 776, 934-947.	5.5	23
22	Ellipsoidal Core@Shell Dielectric-Gold Nanostructure: Theoretical Study of the Tunable Surface Plasmon Resonance. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 1059-1064.	0.9	19
23	The Study of Surface Plasmon Resonance in Au-Ag-Au Three-Layered Bimetallic Nanoshell: The Effect of Separate Ag Layer. <i>Plasmonics</i> , 2014, 9, 435-441.	3.4	18
24	Tuning the shell thickness-dependent plasmonic absorption of Ag coated Au nanocubes: The effect of synthesis temperature. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 199, 113-120.	3.5	18
25	Enlarge the biologic coating-induced absorbance enhancement of Au-Ag bimetallic nanoshells by tuning the metal composition. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 189, 571-577.	3.9	17
26	Highly improved synthesis of gold nanobipyramids by tuning the concentration of hydrochloric acid. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	1.9	16
27	Local dielectric environment-dependent plasmonic optical sensitivity of gold nanocage: from nanobox to nanoframe. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	16
28	Colorimetric determination and recycling of Hg ²⁺ based on etching-induced morphology transformation from hollow AuAg nanocages to nanoboxes. <i>Journal of Alloys and Compounds</i> , 2020, 828, 154392.	5.5	15
29	Wall thickness dependent double optical bistability in gold nanotube: A physical mechanism based on local field enhancement. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	14
30	Synthesis of colloidal gold nanobones with tunable negative curvatures at end surface and their application in SERS. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	1.9	14
31	Tunable optical limiting of gold nanorod thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 97, 431-436.	2.3	13
32	Synthesis of dual-functional Ag/Au nanoparticles based on the decreased cavitating rate under alkaline conditions and the colorimetric detection of mercury(Hg^{2+}) and lead(Pb^{2+}). <i>Journal of Materials Chemistry C</i> , 2018, 6, 7557-7567.	5.5	13
33	Negative curvature dependent plasmonic coupling and local field enhancement of crescent silver nanostructure. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	12
34	Detection of ferrous ion by etching-based multi-colorimetric sensing of gold nanobipyramids. <i>Nanotechnology</i> , 2020, 31, 335505.	2.6	11
35	Calculation of curvature dependent surface plasmon resonance in gold nanospheroid and nanoshell. <i>Journal of Nanoparticle Research</i> , 2009, 11, 785-792.	1.9	10
36	Sectional area-dependent plasmonic shifting in the truncated process of silver nanoparticles: from cube to octahedron. <i>Journal of Nanoparticle Research</i> , 2011, 13, 6305-6312.	1.9	9

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37	A plasmonic ELISA for multi-colorimetric sensing of C-reactive protein by using shell dependent etching of Ag coated Au nanobipyramids. <i>Analytica Chimica Acta</i> , 2022, 1221, 340129.	5.4	9
38	Heterodimers of metal nanoparticles: synthesis, properties, and biological applications. <i>Mikrochimica Acta</i> , 2021, 188, 345.	5.0	8
39	Simulation of the surrounding medium controlled local field enhancement for silver nanorods. <i>Chemical Physics</i> , 2006, 323, 446-450.	1.9	7
40	Creating Orientation-Independent Built-In Hot Spots in Gold Nanoframe with Multi-Breakages. <i>Plasmonics</i> , 2019, 14, 1131-1143.	3.4	7
41	Improve the Plasmonic Spectral Detection of Alpha-Fetoprotein: the Effect of Branch Length on the Coagulation of Gold Nanostars. <i>Plasmonics</i> , 2016, 11, 1175-1182.	3.4	6
42	Switching the plasmon coupling of fractional hollow AuAg nanobox by asymmetrical etching of the inner Ag core. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 255301.	2.8	6
43	Improve the Hole Size-Dependent Refractive Index Sensitivity of Au-Ag Nanocages by Tuning the Alloy Composition. <i>Plasmonics</i> , 2022, 17, 597-612.	3.4	5
44	Focus and enlarge the enhancement region of local electric field by overlapping Ag triangular nanoplates. <i>EPL Applied Physics</i> , 2016, 73, 10501.	0.7	4
45	Selective controlling transverse plasmon spectrum of pentagonal gold nanotube: from visible to near-infrared region. <i>Nanotechnology</i> , 2021, 32, 445202.	2.6	1
46	Plasmonic refractive index sensitivity of tetrapod gold nanostars: tuning the branch length and protein layer. <i>European Physical Journal D</i> , 2022, 76, 1.	1.3	1