

Jun-Wu Zhao

List of Publications by Year in descending order

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111
papers

9,279
citations

159358

30
h-index

38300

95
g-index

111
all docs

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docs citations

111
times ranked

13645
citing authors

#	ARTICLE	IF	CITATIONS
1	Improve the Hole Size-Dependent Refractive Index Sensitivity of Au-Ag Nanocages by Tuning the Alloy Composition. <i>Plasmonics</i> , 2022, 17, 597-612.	1.8	5
2	Plasmonic refractive index sensitivity of tetrapod gold nanostars: tuning the branch length and protein layer. <i>European Physical Journal D</i> , 2022, 76, 1.	0.6	1
3	Theoretical simulation of nonlinear regulation of wall thickness dependent longitudinal surface plasmon in pentagonal gold nanotubes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 273, 121037.	2.0	0
4	The morphology dependent plasmonic optics of urchin-like gold nanoparticles in different silver-coating modes. <i>Vibrational Spectroscopy</i> , 2022, 120, 103373.	1.2	3
5	Surface etching-dependent geometry tailoring and multi-spectral information of Au@AuAg yolk-shell nanostructure with asymmetrical pyramidal core: The application in Co ²⁺ determination. <i>Journal of Colloid and Interface Science</i> , 2022, 625, 340-353.	5.0	8
6	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.	2.6	9
7	Etching-dependent SERS activity of Ag triangular nanoplates: From decrease to increase. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022, 144, 115426.	1.3	3
8	Genomic insights into the formation of human populations in East Asia. <i>Nature</i> , 2021, 591, 413-419.	13.7	216
9	Colorimetric determination of cysteine based on inhibition of GSH-Au/Pt NCs as peroxidase mimic. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 248, 119257.	2.0	23
10	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.	6.6	25
11	Improve the plasmonic optical tunability of Au nanorod by Pt coating: the application in refractive index sensing. <i>European Physical Journal D</i> , 2021, 75, 1.	0.6	0
12	Tuning quadruple surface plasmon resonance in gold nanoellipsoid with platinum coating: from ultraviolet to near infrared. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	3
13	Selective controlling transverse plasmon spectrum of pentagonal gold nanotube: from visible to near-infrared region. <i>Nanotechnology</i> , 2021, 32, 445202.	1.3	1
14	Heterodimers of metal nanoparticles: synthesis, properties, and biological applications. <i>Mikrochimica Acta</i> , 2021, 188, 345.	2.5	8
15	Multipole plasmon resonance in gold nanobipyramid: Effects of tip shape and size. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021, 412, 127577.	0.9	6
16	Spiky yolk-shell AuAg bimetallic nanorods with uniform interior gap for the SERS detection of thiram residues in fruit juice. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 262, 120108.	2.0	16
17	Integration of pre-surgical blood test results predict microvascular invasion risk in hepatocellular carcinoma. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 826-834.	1.9	12
18	Tyrosine-Decorated Gold Nanoclusters Chelated Cerium(III) for Fluorescence Detection of Dopamine. <i>ACS Applied Nano Materials</i> , 2021, 4, 13501-13509.	2.4	9

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19	Fine-tunable fluorescence quenching properties of core-satellite assemblies of gold nanorod-nanosphere: Application in sensitive detection of Hg ²⁺ . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 228, 117776.	2.0	6
20	Gold nanotubes: synthesis, properties and biomedical applications. <i>Mikrochimica Acta</i> , 2020, 187, 612.	2.5	25
21	Genetic substructure and admixture of Mongolians and Kazakhs inferred from genome-wide array genotyping. <i>Annals of Human Biology</i> , 2020, 47, 620-628.	0.4	14
22	A highly specific and sensitive fluorescence quenching probe for carcinoembryonic antigen detection based on tetrapod Au nanostars with Ag coating. <i>Materials Today Communications</i> , 2020, 25, 101373.	0.9	9
23	Detection of ferrous ion by etching-based multi-colorimetric sensing of gold nanobipyramids. <i>Nanotechnology</i> , 2020, 31, 335505.	1.3	11
24	“Magic” Morphologically controllable AuAg@AuAg yolk-shell nanostars with better plasmonic optical properties. <i>Journal of Alloys and Compounds</i> , 2020, 844, 156134.	2.8	8
25	Recent advances in nanomaterial-enhanced biosensing methods for hepatocellular carcinoma diagnosis. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 130, 115965.	5.8	17
26	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.	2.8	15
27	Sensitive detection of choline in infant formulas by SERS marker transformation occurring on a filter-based flexible substrate. <i>Sensors and Actuators B: Chemical</i> , 2020, 308, 127754.	4.0	15
28	The morphology regulation and plasmonic spectral properties of Au@AuAg yolk-shell nanorods with controlled interior gap. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 236, 118343.	2.0	9
29	Nanoplasmonic sensing of NADH by inhibiting the oxidative etching of gold nanorods. <i>Sensors and Actuators B: Chemical</i> , 2019, 299, 126982.	4.0	16
30	A plasmonic and SERS dual-mode iodide ions detecting probe based on the etching of Ag-coated tetrapod gold nanostars. <i>Journal of Nanoparticle Research</i> , 2019, 21, 1.	0.8	5
31	Ratiometric fluorescence detection of Hg ²⁺ and Fe ³⁺ based on BSA-protected Au/Ag nanoclusters and His-stabilized Au nanoclusters. <i>Methods and Applications in Fluorescence</i> , 2019, 7, 045001.	1.1	14
32	MEIS2C and MEIS2D promote tumor progression via Wnt/ β -catenin and hippo/YAP signaling in hepatocellular carcinoma. <i>Journal of Experimental and Clinical Cancer Research</i> , 2019, 38, 417.	3.5	20
33	Size dependent SERS activity of Ag triangular nanoplates on different substrates: Glass vs paper. <i>Applied Surface Science</i> , 2019, 478, 275-283.	3.1	37
34	A SERS-based immunoassay for the detection of α -fetoprotein using AuNS@Ag@SiO ₂ core-shell nanostars. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8432-8441.	2.7	35
35	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.	1.3	6
36	Fluorescence turn-on sensing of L-cysteine based on FRET between Au-Ag nanoclusters and Au nanorods. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 217, 247-255.	2.0	22

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37	SERS detection of glucose using graphene-oxide-wrapped gold nanobones with silver coating. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3322-3334.	2.7	38
38	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.	2.8	23
39	Creating Orientation-Independent Built-In Hot Spots in Gold Nanoframe with Multi-Breakages. <i>Plasmonics</i> , 2019, 14, 1131-1143.	1.8	7
40	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. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 3617-3626.	4.0	72
41	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.	1.1	16
42	The synthesis of Ag-coated tetrapod gold nanostars and the improvement of surface-enhanced Raman scattering. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 211, 154-165.	2.0	26
43	Plasmonic spectral determination of Hg(II) based on surface etching of Au-Ag core-shell triangular nanoplates: From spectrum peak to dip. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 207, 337-347.	2.0	25
44	Modification-free colorimetric and visual detection of Hg ²⁺ based on the etching from core-shell structural Au-Ag nanorods to nanorices. <i>Sensors and Actuators B: Chemical</i> , 2018, 267, 181-190.	4.0	38
45	Etching-dependent fluorescence quenching of Ag-dielectric-Au three-layered nanoshells: The effect of inner Ag nanosphere. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 200, 43-50.	2.0	8
46	Preparation and SERS performance of Au NP/paper strips based on inkjet printing and seed mediated growth: The effect of silver ions. <i>Solid State Communications</i> , 2018, 272, 67-73.	0.9	20
47	Using silicon-coated gold nanoparticles to enhance the fluorescence of CdTe quantum dot and improve the sensing ability of mercury (II). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 188, 170-178.	2.0	22
48	Colorimetric determination of Hg(II) by combining the etching and aggregation effect of cysteine-modified Au-Ag core-shell nanorods. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 2927-2935.	4.0	46
49	Multi-branched gold nanostars with fractal structure for SERS detection of the pesticide thiram. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 189, 586-593.	2.0	80
50	Reversible Tuning the Aspect Ratio and Plasmonic Shift of Gold Nanorods in Alkaline Environment: Growth, Etching and Rebuilding. <i>Plasmonics</i> , 2018, 13, 1433-1439.	1.8	4
51	A colorimetric/SERS dual-mode sensing method for the detection of mercury(II) based on rhodanine-stabilized gold nanobipyramids. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12283-12293.	2.7	42
52	Prognostic value of EGFR and KRAS in resected non-small cell lung cancer: a systematic review and meta-analysis. <i>Cancer Management and Research</i> , 2018, Volume 10, 3393-3404.	0.9	30
53	Selective oxidative etching of CTAC-stabilized multi-branched gold nanoparticles: application in spectral sensing of iodide ions. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	0.8	11
54	Synthesis and SERS activity of super-multibranching Au Ag nanostructure via silver coating-induced aggregation of nanostars. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 204, 380-387.	2.0	26

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55	Synthesis of dual-functional Ag/Au nanoparticles based on the decreased cavitating rate under alkaline conditions and the colorimetric detection of mercury and lead. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7557-7567.	2.7	13
56	SERS detection of 4-Aminobenzenethiol based on triangular Au-AuAg hierarchical-multishell nanostructure. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 204, 754-762.	2.0	8
57	Polyester-based nanoparticles for nucleic acid delivery. <i>Materials Science and Engineering C</i> , 2018, 92, 983-994.	3.8	47
58	Fluorescence turn-on sensing of trace cadmium ions based on EDTA-etched CdTe@CdS quantum dot. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 201, 119-127.	2.0	28
59	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.	2.0	17
60	Investigation on maternal lineage of a Neolithic group from northern Shaanxi based on ancient DNA. <i>Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis</i> , 2017, 28, 732-739.	0.7	2
61	CdTe quantum dot-based fluorescent probes for selective detection of Hg (II): The effect of particle size. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 177, 140-146.	2.0	40
62	Recent advances in activatable fluorescence imaging probes for tumor imaging. <i>Drug Discovery Today</i> , 2017, 22, 1367-1374.	3.2	51
63	Small and Sharp Triangular Silver Nanoplates Synthesized Utilizing Tiny Triangular Nuclei and Their Excellent SERS Activity for Selective Detection of Thiram Residue in Soil. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 17387-17398.	4.0	83
64	Fluorescent detection of ascorbic acid based on the emission wavelength shift of CdTe quantum dots. <i>Journal of Luminescence</i> , 2017, 192, 47-55.	1.5	35
65	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.	0.8	14
66	Specific Detection of Carcinoembryonic Antigen Based on Fluorescence Quenching of Hollow Porous Gold Nanoshells with Roughened Surface. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 36632-36641.	4.0	40
67	Multi-branch Au/Ag bimetallic core-shell-satellite nanoparticles as a versatile SERS substrate: the effect of Au branches in a mesoporous silica interlayer. <i>Journal of Materials Chemistry C</i> , 2017, 5, 12678-12687.	2.7	34
68	Synthesis of gold nanostars with fractal structure: application in surface-enhanced Raman scattering. <i>European Physical Journal B</i> , 2017, 90, 1.	0.6	8
69	Multi-mode optical detection of iodide based on the etching of silver-coated gold nanobipyramids. <i>Sensors and Actuators B: Chemical</i> , 2017, 253, 612-620.	4.0	31
70	Dual-mode melamine detection based on gold nanoparticles aggregation-induced fluorescence and turn-off of CdTe quantum dots. <i>Sensors and Actuators B: Chemical</i> , 2017, 239, 906-915.	4.0	42
71	Precision medicine for hepatocellular carcinoma: driver mutations and targeted therapy. <i>Oncotarget</i> , 2017, 8, 55715-55730.	0.8	76
72	Identifying key regulating miRNAs in hepatocellular carcinomas by an omics™ method. <i>Oncotarget</i> , 2017, 8, 103919-103930.	0.8	8

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73	Focus and enlarge the enhancement region of local electric field by overlapping Ag triangular nanoplates. EPJ Applied Physics, 2016, 73, 10501.	0.3	4
74	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.	4.0	27
75	Highly improved synthesis of gold nanobipyramids by tuning the concentration of hydrochloric acid. Journal of Nanoparticle Research, 2016, 18, 1.	0.8	16
76	Morphology modification of gold nanoparticles from nanoshell to C-shape: Improved surface enhanced Raman scattering. Journal of Applied Physics, 2016, 119, 243104.	1.1	8
77	Halide ions can trigger the oxidative etching of gold nanorods with the iodide ions being the most efficient. Journal of Materials Science, 2016, 51, 7678-7690.	1.7	34
78	Specific detection of carcinoembryonic antigen based on fluorescence quenching of Au-Ag core-shell nanotriangle probe. Sensors and Actuators B: Chemical, 2016, 233, 214-222.	4.0	33
79	Trifunctional molecular beacon-mediated quadratic amplification for highly sensitive and rapid detection of mercury(II) ion with tunable dynamic range. Biosensors and Bioelectronics, 2016, 86, 892-898.	5.3	14
80	Improve the Plasmonic Spectral Detection of Alpha-Fetoprotein: the Effect of Branch Length on the Coagulation of Gold Nanostars. Plasmonics, 2016, 11, 1175-1182.	1.8	6
81	Tuning the EDTA-induced self-assembly and plasmonic spectral properties of gold nanorods: application in surface-enhanced Raman scattering. Journal of Nanoparticle Research, 2016, 18, 1.	0.8	2
82	Colorimetric detection of lead(²⁺) ions based on accelerating surface etching of gold nanorods to nanospheres: the effect of sodium thiosulfate. RSC Advances, 2016, 6, 25611-25619.	1.7	46
83	Tuning the Fluorescence Quenching Properties of Plasmonic Ag-Coated-Au Triangular Nanoplates: Application in Ultrasensitive Detection of CEA. Plasmonics, 2016, 11, 565-572.	1.8	16
84	CTNNA3 is a tumor suppressor in hepatocellular carcinomas and is inhibited by miR-425. Oncotarget, 2016, 7, 8078-8089.	0.8	48
85	Size-dependent production of radicals in catalyzed reduction of Eosin Y using gold nanorods. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	0
86	Misalign-dependent double plasmon modes of gold triangular nanoplate dimers. Journal of Applied Physics, 2015, 117, 063102.	1.1	12
87	A promising direct visualization of an Au@Ag nanorod-based colorimetric sensor for trace detection of alpha-fetoprotein. Journal of Materials Chemistry C, 2015, 3, 6035-6045.	2.7	49
88	The Effect of Dielectric Coating on the Local Electric Field Enhancement of Au-Ag Core-Shell Nanoparticles. Plasmonics, 2015, 10, 1-8.	1.8	45
89	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.	3.1	42
90	Fluorescence spectral detection of cysteine based on the different medium-coated gold nanorods-Rhodamine 6G probe: From quenching to enhancement. Sensors and Actuators B: Chemical, 2015, 220, 1279-1287.	4.0	19

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91	Silver nanoclusters emitting weak NIR fluorescence biomaterialized by BSA. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 134, 40-47.	2.0	17
92	Polarization-Dependent Resonance Light Scattering of Biomolecular Layer Coated Gold Nanoshell. <i>Plasmonics</i> , 2014, 9, 47-54.	1.8	0
93	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.	1.8	18
94	The effect of nonhomogeneous silver coating on the plasmonic absorption of Au@Ag core-shell nanorod. <i>Gold Bulletin</i> , 2014, 47, 47-55.	1.1	32
95	Plasmonic sensing of CTAB in gold nanorods solution based on Cu(II) ions-mediated H ₂ O ₂ etching effect. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	20
96	Improve the surface-enhanced Raman scattering from rhodamine 6G adsorbed gold nanostars with vitreous branches. <i>Applied Surface Science</i> , 2014, 322, 136-142.	3.1	48
97	Improve the refractive index sensitivity of coaxial-cable type gold nanostructure: the effect of dielectric polarization from the separate layer. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	17
98	Obtain Quadruple Intense Plasmonic Resonances from Multilayered Gold Nanoshells by Silver Coating: Application in Multiplex Sensing. <i>Plasmonics</i> , 2013, 8, 1493-1499.	1.8	18
99	Plasmonic Spectral Detection of Carcinoembryonic Antigen by Preventing the Direct Binding of Rhodamine 6G with Au Nanoparticles. <i>Plasmonics</i> , 2013, 8, 1003-1009.	1.8	9
100	Research on the load-bearing characteristics of complex structural components based on the representation of load paths. , 2013, , .		1
101	Frequency-Dependent Polarization Properties of Local Electric Field in Gold@Dielectric Multi-Nanoshells. <i>Plasmonics</i> , 2013, 8, 417-424.	1.8	8
102	Optimization of Three-Layered Au@Ag Bimetallic Nanoshells for Triple-Bands Surface Plasmon Resonance. <i>Journal of Physical Chemistry C</i> , 2012, 116, 11734-11740.	1.5	40
103	Binary particle swarm optimization with multiple evolutionary strategies. <i>Science China Information Sciences</i> , 2012, 55, 2485-2494.	2.7	8
104	Effect of dielectric coating on the sensing capability of gold nanorods based on plasmonic band widening. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	4
105	Distance-Dependent Fluorescence Quenching Efficiency of Gold Nanodisk: Effect of Aspect Ratio-Dependent Plasmonic Absorption. <i>Plasmonics</i> , 2012, 7, 201-207.	1.8	12
106	Multifactor-Controlled Non-Monotonic Plasmon Shift of Ordered Gold Nanodisk Arrays: Shape-Dependent Interparticle Coupling. <i>Plasmonics</i> , 2011, 6, 261-267.	1.8	11
107	Dislocation nucleation near a sharp indenter in contact problems. <i>International Journal of Fracture</i> , 2009, 155, 119-125.	1.1	3
108	Tunable optical limiting of gold nanorod thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 97, 431-436.	1.1	13

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109	Biosensing with plasmonic nanosensors. Nature Materials, 2008, 7, 442-453.	13.3	6,152
110	Controlled Plasmonic Nanostructures for Surface-Enhanced Spectroscopy and Sensing. Accounts of Chemical Research, 2008, 41, 1653-1661.	7.6	683
111	FORT: a Decentralized Automated Trust Negotiation Framework for Grids. , 2008, , .		1