

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

111
docs citations

111
times ranked

13645
citing authors

#	ARTICLE	IF	CITATIONS
1	Biosensing with plasmonic nanosensors. <i>Nature Materials</i> , 2008, 7, 442-453.	13.3	6,152
2	Controlled Plasmonic Nanostructures for Surface-Enhanced Spectroscopy and Sensing. <i>Accounts of Chemical Research</i> , 2008, 41, 1653-1661.	7.6	683
3	Genomic insights into the formation of human populations in East Asia. <i>Nature</i> , 2021, 591, 413-419.	13.7	216
4	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
5	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
6	Precision medicine for hepatocellular carcinoma: driver mutations and targeted therapy. <i>Oncotarget</i> , 2017, 8, 55715-55730.	0.8	76
7	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
8	Recent advances in activatable fluorescence imaging probes for tumor imaging. <i>Drug Discovery Today</i> , 2017, 22, 1367-1374.	3.2	51
9	A promising direct visualization of an Au@Ag nanorod-based colorimetric sensor for trace detection of alpha-fetoprotein. <i>Journal of Materials Chemistry C</i> , 2015, 3, 6035-6045.	2.7	49
10	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
11	<i>CTNNA3</i> is a tumor suppressor in hepatocellular carcinomas and is inhibited by miR-425. <i>Oncotarget</i> , 2016, 7, 8078-8089.	0.8	48
12	Polyester-based nanoparticles for nucleic acid delivery. <i>Materials Science and Engineering C</i> , 2018, 92, 983-994.	3.8	47
13	Colorimetric detection of lead(II) ions based on accelerating surface etching of gold nanorods to nanospheres: the effect of sodium thiosulfate. <i>RSC Advances</i> , 2016, 6, 25611-25619.	1.7	46
14	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
15	The Effect of Dielectric Coating on the Local Electric Field Enhancement of Au-Ag Core-Shell Nanoparticles. <i>Plasmonics</i> , 2015, 10, 1-8.	1.8	45
16	Improve the surface enhanced Raman scattering of gold nanorods decorated graphene oxide: The effect of CTAB on the electronic transition. <i>Applied Surface Science</i> , 2015, 347, 856-860.	3.1	42
17	Dual-mode melamine detection based on gold nanoparticles aggregation-induced fluorescence and of CdTe quantum dots. <i>Sensors and Actuators B: Chemical</i> , 2017, 239, 906-915. ^{4.0}		42
18	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

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19	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
20	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
21	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
22	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
23	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
24	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
25	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
26	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
27	Halide ions can trigger the oxidative etching of gold nanorods with the iodide ions being the most efficient. <i>Journal of Materials Science</i> , 2016, 51, 7678-7690.	1.7	34
28	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
29	Specific detection of carcinoembryonic antigen based on fluorescence quenching of Au-Ag core-shell nanotriangle probe. <i>Sensors and Actuators B: Chemical</i> , 2016, 233, 214-222.	4.0	33
30	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
31	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
32	Prognostic value of α -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
33	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
34	Detecting glucose by using the Raman scattering of oxidized ascorbic acid: The effect of graphene oxide-gold nanorod hybrid. <i>Sensors and Actuators B: Chemical</i> , 2016, 235, 663-669.	4.0	27
35	Synthesis and SERS activity of super-multibranched 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
36	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

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37	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
38	Gold nanotubes: synthesis, properties and biomedical applications. <i>Mikrochimica Acta</i> , 2020, 187, 612.	2.5	25
39	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
40	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
41	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
42	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
43	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
44	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
45	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
46	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
47	Fluorescence spectral detection of cysteine based on the different medium-coated gold nanorods-Rhodamine 6G probe: From quenching to enhancement. <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 1279-1287.	4.0	19
48	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
49	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
50	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
51	Silver nanoclusters emitting weak NIR fluorescence biomineralized by BSA. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 134, 40-47.	2.0	17
52	Recent advances in nanomaterial-enhanced biosensing methods for hepatocellular carcinoma diagnosis. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 130, 115965.	5.8	17
53	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
54	Highly improved synthesis of gold nanobipyramids by tuning the concentration of hydrochloric acid. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	0.8	16

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55	Tuning the Fluorescence Quenching Properties of Plasmonic Ag-Coated-Au Triangular Nanoplates: Application in Ultrasensitive Detection of CEA. <i>Plasmonics</i> , 2016, 11, 565-572.	1.8	16
56	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
57	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
58	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
59	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
60	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
61	Trifunctional molecular beacon-mediated quadratic amplification for highly sensitive and rapid detection of mercury(II) ion with tunable dynamic range. <i>Biosensors and Bioelectronics</i> , 2016, 86, 892-898.	5.3	14
62	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
63	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
64	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
65	Tunable optical limiting of gold nanorod thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 97, 431-436.	1.1	13
66	Synthesis of dual-functional Ag/Au nanoparticles based on the decreased cavitating rate under alkaline conditions and the colorimetric detection of mercury(II) and lead(II). <i>Journal of Materials Chemistry C</i> , 2018, 6, 7557-7567.	2.7	13
67	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
68	Misalign-dependent double plasmon modes of gold triangular nanoplate dimers. <i>Journal of Applied Physics</i> , 2015, 117, 063102.	1.1	12
69	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
70	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
71	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
72	Detection of ferrous ion by etching-based multi-colorimetric sensing of gold nanobipyramids. <i>Nanotechnology</i> , 2020, 31, 335505.	1.3	11

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73	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
74	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
75	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
76	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
77	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
78	Binary particle swarm optimization with multiple evolutionary strategies. <i>Science China Information Sciences</i> , 2012, 55, 2485-2494.	2.7	8
79	Frequency-Dependent Polarization Properties of Local Electric Field in Gold Dielectric Multi-Nanoshells. <i>Plasmonics</i> , 2013, 8, 417-424.	1.8	8
80	Morphology modification of gold nanoparticles from nanoshell to C-shape: Improved surface enhanced Raman scattering. <i>Journal of Applied Physics</i> , 2016, 119, 243104.	1.1	8
81	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
82	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
83	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
84	“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
85	Heterodimers of metal nanoparticles: synthesis, properties, and biological applications. <i>Mikrochimica Acta</i> , 2021, 188, 345.	2.5	8
86	Identifying key regulating miRNAs in hepatocellular carcinomas by an omics™ method. <i>Oncotarget</i> , 2017, 8, 103919-103930.	0.8	8
87	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
88	Creating Orientation-Independent Built-In Hot Spots in Gold Nanoframe with Multi-Breakages. <i>Plasmonics</i> , 2019, 14, 1131-1143.	1.8	7
89	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.	1.8	6
90	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

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91	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
92	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
93	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
94	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
95	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
96	Focus and enlarge the enhancement region of local electric field by overlapping Ag triangular nanoplates. <i>EPJ Applied Physics</i> , 2016, 73, 10501.	0.3	4
97	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
98	Dislocation nucleation near a sharp indenter in contact problems. <i>International Journal of Fracture</i> , 2009, 155, 119-125.	1.1	3
99	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
100	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
101	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
102	Tuning the EDTA-induced self-assembly and plasmonic spectral properties of gold nanorods: application in surface-enhanced Raman scattering. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	0.8	2
103	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
104	FORT: a Decentralized Automated Trust Negotiation Framework for Grids. , 2008, , .		1
105	Research on the load-bearing characteristics of complex structural components based on the representation of load paths. , 2013, , .		1
106	Selective controlling transverse plasmon spectrum of pentagonal gold nanotube: from visible to near-infrared region. <i>Nanotechnology</i> , 2021, 32, 445202.	1.3	1
107	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
108	Polarization-Dependent Resonance Light Scattering of Biomolecular Layer Coated Gold Nanoshell. <i>Plasmonics</i> , 2014, 9, 47-54.	1.8	0

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109	Size-dependent production of radicals in catalyzed reduction of Eosin Y using gold nanorods. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	0
110	Improve the plasmonic optical tunability of Au nanorod by Pt coating: the application in refractive index sensing. European Physical Journal D, 2021, 75, 1.	0.6	0
111	Theoretical simulation of nonlinear regulation of wall thickness dependent longitudinal surface plasmon in pentagonal gold nanotubes. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 273, 121037.	2.0	0