Aihui Liang

List of Publications by Year
in descending order

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87	1,260	331670	501196
papers	citations	21 h-index	28 g-index

88	88	88	1063
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Lead-Free Organicâ€“Perovskite Hybrid Quantum Wells for Highly Stable Light-Emitting Diodes. ACS Nano, 2021, 15, 6316-6325.	14.6	73
2	Ligand-Driven Grain Engineering of High Mobility Two-Dimensional Perovskite Thin-Film Transistors. Journal of the American Chemical Society, 2021, 143, 15215-15223.	13.7	55
3	Highly Efficient Halide Perovskite Lightâ€Emitting Diodes via Molecular Passivation. Angewandte Chemie - International Edition, 2021, 60, 8337-8343.	13.8	47
4	Resonance scattering spectral detection of trace ATP based on label-free aptamer reaction and nanogold catalysis. Analyst, The, 2011, 136, 4514.	3.5	40
5	Catalysis of aptamer-modified AuPd nanoalloy probe and its application to resonance scattering detection of trace UO22+. Nanoscale, 2011, 3, 3178.	5.6	36
6	Fullerene carbon dot catalytic amplification-aptamer assay platform for ultratrace As+3 utilizing SERS/RRS/Abs trifunctional Au nanoprobes. Journal of Hazardous Materials, 2021, 403, 123633.	12.4	30
7	A Highly Sensitive Aptamer-Nanogold Catalytic Resonance Scattering Spectral Assay for Melamine. Journal of Fluorescence, 2011, 21, 1907-1912.	2.5	27
8	A Sensitive Surfaceâ€enhanced Raman Scattering Method for Determination of Melamine with Aptamerâ€modified Nanosilver Probe. Chinese Journal of Chemistry, 2012, 30, 869-874.	4.9	27
9	A highly sensitive and accurate SERS/RRS dual-spectroscopic immunosensor for clenbuterol based on nitrogen/silver-codoped carbon dots catalytic amplification. Talanta, 2020, 209, 120529.	5.5	26
10	A novel aptamer RRS assay platform for ultratrace melamine based on COF-loaded Pd nanocluster catalytic amplification. Journal of Hazardous Materials, 2022, 423, 127263.	12.4	26
11	Aptamer based determination of Pb(II) by SERS and by exploiting the reduction of HAuCl4 by H2O2 as catalyzed by graphene oxide nanoribbons. Mikrochimica Acta, 2018, 185, 177.	5.0	25
12	A facile SERS strategy for quantitative analysis of trace glucose coupling glucose oxidase and nanosilver catalytic oxidation of tetramethylbenzidine. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 216, 146-153.	3.9	25
13	Doped N/Ag Carbon Dot Catalytic Amplification SERS Strategy for Acetamiprid Coupled Aptamer with 3,3â€²-Dimethylbiphenyl-4,4â€²-diamine Oxidizing Reaction. Nanomaterials, 2019, 9, 480.	4.1	25
14	A novel small molecular liquid crystal catalytic amplification-nanogold SPR aptamer absorption assay for trace oxytetracycline. Talanta, 2021, 233, 122528.	5.5	25
15	New Ag-Doped COF Catalytic Amplification Aptamer Analytical Platform for Trace Small Molecules with the Resonance Rayleigh Scattering Technique. ACS Applied Materials & Interfaces, 2020, 12, 12120-12132.	8.0	24
16	White light-emitting diodes based on an all-phosphorescent supramolecular polymer. Polymer Chemistry, 2015, 6, 6202-6207.	3.9	23
17	A simple and sensitive SERS quantitative analysis method for urea using the dimethylglyoxime product as molecular probes in nanosilver sol substrate. Food Chemistry, 2019, 271, 39-46.	8.2	23
18	A fluorometric clenbuterol immunoassay using sulfur and nitrogen doped carbon quantum dots. Mikrochimica Acta, 2019, 186, 323.	5.0	23

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19	Using Ca-doped carbon dots as catalyst to amplify signal to determine ultratrace thrombin by free-label aptamer-SERS method. Materials Science and Engineering C, 2019, 99, 1399-1406.	7.3	23
20	Resonance Rayleigh Scattering and SERS Spectral Detection of Trace Hg(II) Based on the Gold Nanocatalysis. Nanomaterials, 2017, 7, 114.	4.1	22
21	Aptamer-mediated N/Ce-doped carbon dots as a fluorescent and resonance Rayleigh scattering dual mode probe for arsenic(III). Mikrochimica Acta, 2019, 186, 638.	5.0	22
22	Benzoselenadiazole-based donor-acceptor small molecule: Synthesis, aggregation-induced emission and electroluminescence. Dyes and Pigments, 2018, 149, 399-406.	3.7	21
23	A facile and sensitive fluorescence assay for glucose via hydrogen peroxide based on MOF-Fe catalytic oxidation of TMB. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 265, 120376.	3.9	20
24	Free-Labeled Nanogold Catalytic Detection of Trace UO 2 2+ Based on the Aptamer Reaction and Gold Particle Resonance Scattering Effect. Plasmonics, 2012, 7, 185-190.	3.4	19
25	Novel cyclometalated platinum (II) complex containing carrier-transporting groups: Synthesis, luminescence and application in single dopant white PLEDs. Dyes and Pigments, 2013, 96, 732-737.	3.7	19
26	Recent Progresses of Iridium Complex-Containing Macromolecules for Solution-Processed Organic Light-Emitting Diodes. Journal of Inorganic and Organometallic Polymers and Materials, 2014, 24, 905-926.	3.7	19
27	A Rapid Surface-Enhanced Raman Scattering Method for the Determination of Trace Hg2+ Using Rhodamine 6G-Aggregated Nanosilver as Probe. Plasmonics, 2012, 7, 461-468.	3.4	18
28	Immunocontrolling Graphene Oxide Catalytic Nanogold Reaction and Its Application to SERS Quantitative Analysis. ACS Omega, 2017, 2, 7349-7358.	3.5	18
29	Single-atom Fe catalytic amplification-gold nanosol SERS/RRS aptamer as platform for the quantification of trace pollutants. Mikrochimica Acta, 2021, 188, 175.	5.0	18
30	A facile and sensitive peptide-modulating graphene oxide nanoribbon catalytic nanoplasmon analytical platform for human chorionic gonadotropin. International Journal of Nanomedicine, 2017, Volume 12, 8725-8734.	6.7	17
31	A series of blue supramolecular polymers with different counterions for polymer light-emitting diodes. Chemical Communications, 2014, 50, 8227.	4.1	16
32	A simple and selective resonance Rayleigh scattering-energy transfer spectral method for determination of trace neomycin sulfate using Cu2O particle as probe. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 190, 268-273.	3.9	16
33	A new resonance Rayleigh scattering method for trace Pb, coupling the hydride generation reaction with nanogold formation. RSC Advances, 2013, 3, 12585.	3.6	15
34	A simple gold nanoplasmonic SERS method for trace Hg²⁺ based on aptamerâ€regulating graphene oxide catalysis. Luminescence, 2018, 33, 1113-1121.	2.9	15
35	A new gold nanoflower sol SERS method for trace iodine ion based on catalytic amplification. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 255, 119738.	3.9	15
36	A new resonance Rayleigh scattering method for the determination of trace O3 in air using rhodamine 6G as probe. RSC Advances, 2013, 3, 6627.	3.6	14

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37	Novel yellow phosphorescent iridium complexes with dibenzothiophene-S,S-dioxide-based cyclometalated ligand for white polymer light-emitting diodes. Dyes and Pigments, 2018, 159, 637-645.	3.7	14
38	Novel iridium complexes as yellow phosphorescent emitters for single-layer yellow and white polymer light-emitting diodes. Journal of Materials Chemistry C, 2016, 4, 6626-6633.	5.5	13
39	Strong catalysis of silver-doped carbon nitride nanoparticles and their application to aptamer SERS and RRS coupled dual-mode detection of ultra-trace K+. Journal of Materials Chemistry C, 2020, 8, 11088-11101.	5.5	13
40	A Highly Sensitive Resonance Scattering Spectral Assay for Hg2+Based on the Aptamer-Modified AuRu Nanoparticle-NaClO3-NaI-Cationic Surfactant Catalytic Reaction. Analytical Letters, 2011, 44, 1442-1453.	1.8	12
41	A new SERS strategy for quantitative analysis of trace microalbuminuria based on immunorecognition and graphene oxide nanoribbon catalysis. International Journal of Nanomedicine, 2018, Volume 13, 6099-6107.	6.7	12
42	Aptamer-Regulated Gold Nanosol Plasmonic SERS/RRS Dimode Assay of Trace Organic Pollutants Based on TpPa-Loaded PdNC Catalytic Amplification. ACS Applied Bio Materials, 2021, 4, 4582-4590.	4.6	12
43	Highly catalysis MOFCe supported Ag nanoclusters coupled with specific aptamer for SERS quantitative assay of trace dopamine. Talanta, 2022, 245, 123468.	5.5	12
44	A Simple and Sensitive Resonance Scattering Spectral Assay for Detection of Melamine Using Aptamer-Modified Nanosilver Probe. Plasmonics, 2011, 6, 387-392.	3.4	11
45	A New Immunonanogold Graphite Furnace Atomic Absorption Spectral Assay for Human Chorionic Gonadotrophin. Analytical Letters, 2011, 44, 2162-2169.	1.8	11
46	A Sensitive Gold Nanoplasmonic SERS Quantitative Analysis Method for Sulfate in Serum Using Fullerene as Catalyst. Nanomaterials, 2018, 8, 277.	4.1	11
47	A highly sensitive resonance Rayleigh scattering method for hemin based on the nanogoldâ€“aptamer probe catalysis of the HAuCl4â€“citrate particle reaction. RSC Advances, 2013, 3, 17703.	3.6	10
48	A novel cyclometalated Iridium(<scp>iii</scp>) complex containing dibenzo-24-crown-8: synthesis, luminescence and application in highly efficient green phosphorescent OLEDs. RSC Advances, 2015, 5, 49466-49470.	3.6	10
49	Solution-processable deep red-emitting supramolecular phosphorescent polymer with novel iridium complex for organic light-emitting diodes. Electronic Materials Letters, 2016, 12, 615-621.	2.2	10
50	Synthesis, characterization and device application of a novel blue-emitting copolymer incorporating fluorene and benzothiazole backbone units. Optical Materials, 2019, 98, 109443.	3.6	10
51	Highly catalysis amplification of MOF_{Nd}-loaded nanogold combined with specific aptamer SERS/RRS assay of trace glyphosate. Analyst, The, 2022, 147, 2369-2377.	3.5	10
52	An ultrasensitive SERS method for the determination of ozone using a nanogold sol as substrate and rhodamine S as probe. RSC Advances, 2014, 4, 959-962.	3.6	9
53	Sky-blue phosphorescent organic light-emitting diodes with dibenzo-24-crown-8 substituted iridium(III) complexes as the dopants. Dyes and Pigments, 2017, 138, 77-82.	3.7	9
54	A facile and highly sensitive resonance Rayleigh scattering-energy transfer method for urea using a fullerene probe. RSC Advances, 2018, 8, 29008-29012.	3.6	9

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55	Highly Efficient Halide Perovskite Lightâ€Emitting Diodes via Molecular Passivation. Angewandte Chemie, 2021, 133, 8418-8424.	2.0	9
56	Tailoring Anchoring Groups in Lowâ€Dimensional Organic Semiconductorâ€Incorporated Perovskites. Small Structures, 2022, 3, .	12.0	9
57	Orange-emitting supramolecular phosphorescent polymer with different counterions for polymer light-emitting diodes. Dyes and Pigments, 2020, 172, 107790.	3.7	8
58	Dibenzothiophene-S,S-dioxide derivatives containing triphenylamine and tetraphenylethene: Synthesis, aggregation-induced emission and electroluminescence. Dyes and Pigments, 2020, 180, 108526.	3.7	8
59	A Highly Sensitive SERS and RRS Coupled Di-Mode Method for CO Detection Using Nanogolds as Catalysts and Bifunctional Probes. Nanomaterials, 2020, 10, 450.	4.1	8
60	Multi-stable cholesteric liquid crystal windows with four optical states. Liquid Crystals, 2022, 49, 289-296.	2.2	8
61	A Highly Sensitive Enzyme Catalytic Method for the Detection of Ethanol Based on Resonance Scattering Effect of Gold Particles. Plasmonics, 2013, 8, 307-312.	3.4	7
62	A sensitive SERS quantitative analysis method for Ni²⁺ by the dimethylglyoxime reaction regulating a graphene oxide nanoribbon catalytic gold nanoreaction. Luminescence, 2018, 33, 1033-1039.	2.9	7
63	Novel dinuclear cyclometalated Platinum(II) complex as orange phosphorescent emitters for single-emitting-layer white polymer light-emitting diodes. Optical Materials, 2019, 88, 551-557.	3.6	7
64	A New and Sensitive Catalytic Resonance Scattering Spectral Assay for the Detection of Laccase Activity Using H2O2-Iâ¯-TDMAC System. Chinese Journal of Chemistry, 2011, 29, 787-792.	4.9	6
65	A New Nanocatalytic Spectrophotometric Assay for Cationic Surfactant Using Phosphomolybdic Acidâ€Formic Acidâ€Nanogold as Indicator Reaction. Chinese Journal of Chemistry, 2012, 30, 59-64.	4.9	6
66	Enhanced emission of CaNb2O6 : Sm3+ phosphor by codoping Na+/B3+ and the emission properties. Bulletin of Materials Science, 2016, 39, 187-193.	1.7	6
67	On-signal amplification of silver nanosol RRS/SERS aptamer detection of ultratrace urea by polystyrene nanosphere catalyst. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 265, 120353.	3.9	6
68	A new Fe/N doped carbon dot naocatalytic amplification-aptamer SERS/RRS/Abs trimode assay platform for ultratrace Pb2+. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 272, 121008.	3.9	6
69	A sensitive surfaceâ€enhanced Raman scattering method for chondroitin sulfate with Victoria blue 4R molecular probes in nanogold sol substrate. Luminescence, 2018, 33, 131-137.	2.9	5
70	Novel yellow phosphorescent iridium complexes with cycolmetalated (pyridin-2-yl)dibenzothiophene-S,S-dioxide ligands for singly doped emissive layer hybrid white organic light-emitting diodes. Optical Materials, 2019, 91, 439-446.	3.6	5
71	A novel and sensitive resonance scattering assay for detection of urea in serum coupled urease catalytic reaction and NH4 + associated particle reaction. Bioprocess and Biosystems Engineering, 2011, 34, 639-645.	3.4	4
72	Solution-processable supramolecular phosphorescent polymer iridium complexes for red organic light-emitting diodes. Materials Letters, 2015, 161, 572-575.	2.6	4

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73	Supramolecular green phosphorescent polymer iridium complexes for solution-processed nondoped organic light-emitting diodes. Journal of Organometallic Chemistry, 2016, 804, 1-5.	1.8	4
74	Novel self-host heteroleptic green iridium dendrimers based on carbazole dendrons for solution-processable non-doped phosphorescent organic light-emitting diodes. Optical Materials, 2020, 106, 109976.	3.6	4
75	A New Covalent Organic Framework of Dicyandiamide-Benzaldehyde Nanocatalytic Amplification SERS/RRS Aptamer Assay for Ultratrace Oxytetracycline with the Nanogold Indicator Reaction of Polyethylene Glycol 600. Biosensors, 2021, 11, 458.	4.7	4
76	Supramolecular Phosphorescent Polymer Based on Cationic Iridium Complexes for Polymer Light-Emitting Diodes. Journal of Inorganic and Organometallic Polymers and Materials, 2022, 32, 1499-1505.	3.7	4
77	Resonance Scattering Effect of Dopamine Product Particle and Its Application to Polyphenoloxidase Activity Assay. Chinese Journal of Chemistry, 2011, 29, 544-548.	4.9	3
78	Resonance scattering spectrum detection of trace using nanogold probe as catalyst of Cu(II)-glucose reaction. International Journal of Environmental Analytical Chemistry, 2013, 93, 377-385.	3.3	3
79	A new strategy for the determination of trace Hg²⁺ by 5CB liquid crystal RRS probe based on nanogold amplification and Galvanic replacement reaction. Liquid Crystals, 2022, 49, 559-565.	2.2	3
80	A Simple and Sensitive Nanogold RRS/Abs Dimode Sensor for Trace As3+ Based on Aptamer Controlled Nitrogen Doped Carbon Dot Catalytic Amplification. Molecules, 2021, 26, 5930.	3.8	3
81	A Simple and Sensitive Labelâ€free Immunoassay for Factor B Using Resonance Scattering Spectral Detection. Chinese Journal of Chemistry, 2012, 30, 1636-1640.	4.9	2
82	White polymer light-emitting diodes based on dibenzo-24-crown-8 decorated orange-emitting iridium complexes. Journal of Organometallic Chemistry, 2018, 877, 68-72.	1.8	2
83	Resonance Scattering Detection of Trace Hg²⁺ Using Aptamerâ€modified AuPd Nanoalloy Probe as Catalyst. Chinese Journal of Chemistry, 2011, 29, 1769-1773.	4.9	1
84	Photophysical performances and morphology of phosphorescent electrospun fibres fabricated from iridium complex/PMMA blends. Micro and Nano Letters, 2018, 13, 936-940.	1.3	1
85	SERS and RRS Spectral Detection of Ultratrace Sulfite Based on PtPd Nanoalloy Catalytic Amplification. Plasmonics, 2020, 15, 2043-2052.	3.4	1
86	Homoleptic iridium complexes with dibenzothiophene sulfone and triphenylamine groups for orange polymer light-emitting diodes. Optical Materials, 2021, 115, 111072.	3.6	1
87	Electroluminescent Performances of Iridium Complexes with Dibenzo-18-crown-6. Journal of Inorganic and Organometallic Polymers and Materials, 2017, 27, 941-947.	3.7	0