

Aihui Liang

List of Publications by Year in descending order

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87
papers

1,260
citations

331670

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88
all docs

88
docs citations

88
times ranked

1063
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-stable cholesteric liquid crystal windows with four optical states. <i>Liquid Crystals</i> , 2022, 49, 289-296.	2.2	8
2	A new strategy for the determination of trace Hg ²⁺ by 5CB liquid crystal RRS probe based on nanogold amplification and Galvanic replacement reaction. <i>Liquid Crystals</i> , 2022, 49, 559-565.	2.2	3
3	A facile and sensitive fluorescence assay for glucose via hydrogen peroxide based on MOF-Fe catalytic oxidation of TMB. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 265, 120376.	3.9	20
4	A novel aptamer RRS assay platform for ultratrace melamine based on COF-loaded Pd nanocluster catalytic amplification. <i>Journal of Hazardous Materials</i> , 2022, 423, 127263.	12.4	26
5	On-signal amplification of silver nanosol RRS/SERS aptamer detection of ultratrace urea by polystyrene nanosphere catalyst. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 265, 120353.	3.9	6
6	Tailoring Anchoring Groups in Low-Dimensional Organic Semiconductor-Incorporated Perovskites. <i>Small Structures</i> , 2022, 3, .	12.0	9
7	Supramolecular Phosphorescent Polymer Based on Cationic Iridium Complexes for Polymer Light-Emitting Diodes. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2022, 32, 1499-1505.	3.7	4
8	A new Fe/N doped carbon dot nanocatalytic amplification-aptamer SERS/RRS/Abs trimode assay platform for ultratrace Pb ²⁺ . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 272, 121008.	3.9	6
9	Highly catalysis MOFCe supported Ag nanoclusters coupled with specific aptamer for SERS quantitative assay of trace dopamine. <i>Talanta</i> , 2022, 245, 123468.	5.5	12
10	Highly catalysis amplification of MOF _{Nd} -loaded nanogold combined with specific aptamer SERS/RRS assay of trace glyphosate. <i>Analyst</i> , 2022, 147, 2369-2377.	3.5	10
11	Fullerene carbon dot catalytic amplification-aptamer assay platform for ultratrace As ³⁺ utilizing SERS/RRS/Abs trifunctional Au nanoprobe. <i>Journal of Hazardous Materials</i> , 2021, 403, 123633.	12.4	30
12	Highly Efficient Halide Perovskite Light-Emitting Diodes via Molecular Passivation. <i>Angewandte Chemie</i> , 2021, 133, 8418-8424.	2.0	9
13	Highly Efficient Halide Perovskite Light-Emitting Diodes via Molecular Passivation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8337-8343.	13.8	47
14	Lead-Free Organic Perovskite Hybrid Quantum Wells for Highly Stable Light-Emitting Diodes. <i>ACS Nano</i> , 2021, 15, 6316-6325.	14.6	73
15	Single-atom Fe catalytic amplification-gold nanosol SERS/RRS aptamer as platform for the quantification of trace pollutants. <i>Mikrochimica Acta</i> , 2021, 188, 175.	5.0	18
16	Aptamer-Regulated Gold Nanosol Plasmonic SERS/RRS Dimode Assay of Trace Organic Pollutants Based on TpPa-Loaded PdNC Catalytic Amplification. <i>ACS Applied Bio Materials</i> , 2021, 4, 4582-4590.	4.6	12
17	Homoleptic iridium complexes with dibenzothiophene sulfone and triphenylamine groups for orange polymer light-emitting diodes. <i>Optical Materials</i> , 2021, 115, 111072.	3.6	1
18	A new gold nanoflower sol SERS method for trace iodine ion based on catalytic amplification. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 255, 119738.	3.9	15

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19	Ligand-Driven Grain Engineering of High Mobility Two-Dimensional Perovskite Thin-Film Transistors. <i>Journal of the American Chemical Society</i> , 2021, 143, 15215-15223.	13.7	55
20	A novel small molecular liquid crystal catalytic amplification-nanogold SPR aptamer absorption assay for trace oxytetracycline. <i>Talanta</i> , 2021, 233, 122528.	5.5	25
21	A Simple and Sensitive Nanogold RRS/Abs Dimode Sensor for Trace As ³⁺ Based on Aptamer Controlled Nitrogen Doped Carbon Dot Catalytic Amplification. <i>Molecules</i> , 2021, 26, 5930.	3.8	3
22	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. <i>Biosensors</i> , 2021, 11, 458.	4.7	4
23	Orange-emitting supramolecular phosphorescent polymer with different counterions for polymer light-emitting diodes. <i>Dyes and Pigments</i> , 2020, 172, 107790.	3.7	8
24	A highly sensitive and accurate SERS/RRS dual-spectroscopic immunosensor for clenbuterol based on nitrogen/silver-codoped carbon dots catalytic amplification. <i>Talanta</i> , 2020, 209, 120529.	5.5	26
25	Strong catalysis of silver-doped carbon nitride nanoparticles and their application to aptamer SERS and RRS coupled dual-mode detection of ultra-trace K ⁺ . <i>Journal of Materials Chemistry C</i> , 2020, 8, 11088-11101.	5.5	13
26	Dibenzothiophene-S,S-dioxide derivatives containing triphenylamine and tetraphenylethene: Synthesis, aggregation-induced emission and electroluminescence. <i>Dyes and Pigments</i> , 2020, 180, 108526.	3.7	8
27	A Highly Sensitive SERS and RRS Coupled Di-Mode Method for CO Detection Using Nanogolds as Catalysts and Bifunctional Probes. <i>Nanomaterials</i> , 2020, 10, 450.	4.1	8
28	SERS and RRS Spectral Detection of Ultratrace Sulfite Based on PtPd Nanoalloy Catalytic Amplification. <i>Plasmonics</i> , 2020, 15, 2043-2052.	3.4	1
29	Novel self-host heteroleptic green iridium dendrimers based on carbazole dendrons for solution-processable non-doped phosphorescent organic light-emitting diodes. <i>Optical Materials</i> , 2020, 106, 109976.	3.6	4
30	New Ag-Doped COF Catalytic Amplification Aptamer Analytical Platform for Trace Small Molecules with the Resonance Rayleigh Scattering Technique. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 12120-12132.	8.0	24
31	A simple and sensitive SERS quantitative analysis method for urea using the dimethylglyoxime product as molecular probes in nanosilver sol substrate. <i>Food Chemistry</i> , 2019, 271, 39-46.	8.2	23
32	Synthesis, characterization and device application of a novel blue-emitting copolymer incorporating fluorene and benzothiazole backbone units. <i>Optical Materials</i> , 2019, 98, 109443.	3.6	10
33	Aptamer-mediated N/Ce-doped carbon dots as a fluorescent and resonance Rayleigh scattering dual mode probe for arsenic(III). <i>Mikrochimica Acta</i> , 2019, 186, 638.	5.0	22
34	Novel dinuclear cyclometalated Platinum(II) complex as orange phosphorescent emitters for single-emitting-layer white polymer light-emitting diodes. <i>Optical Materials</i> , 2019, 88, 551-557.	3.6	7
35	A fluorometric clenbuterol immunoassay using sulfur and nitrogen doped carbon quantum dots. <i>Mikrochimica Acta</i> , 2019, 186, 323.	5.0	23
36	A facile SERS strategy for quantitative analysis of trace glucose coupling glucose oxidase and nanosilver catalytic oxidation of tetramethylbenzidine. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 216, 146-153.	3.9	25

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37	Novel yellow phosphorescent iridium complexes with cyclometalated (pyridin-2-yl)dibenzothiophene-S,S-dioxide ligands for singly doped emissive layer hybrid white organic light-emitting diodes. <i>Optical Materials</i> , 2019, 91, 439-446.	3.6	5
38	Doped N/Ag Carbon Dot Catalytic Amplification SERS Strategy for Acetamiprid Coupled Aptamer with 3,3'-Dimethylbiphenyl-4,4'-diamine Oxidizing Reaction. <i>Nanomaterials</i> , 2019, 9, 480.	4.1	25
39	Using Ca-doped carbon dots as catalyst to amplify signal to determine ultratrace thrombin by free-label aptamer-SERS method. <i>Materials Science and Engineering C</i> , 2019, 99, 1399-1406.	7.3	23
40	Aptamer based determination of Pb(II) by SERS and by exploiting the reduction of H ₂ AuCl ₄ by H ₂ O ₂ as catalyzed by graphene oxide nanoribbons. <i>Mikrochimica Acta</i> , 2018, 185, 177.	5.0	25
41	Benzoselenadiazole-based donor-acceptor small molecule: Synthesis, aggregation-induced emission and electroluminescence. <i>Dyes and Pigments</i> , 2018, 149, 399-406.	3.7	21
42	A simple and selective resonance Rayleigh scattering-energy transfer spectral method for determination of trace neomycin sulfate using Cu ₂ O particle as probe. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 190, 268-273.	3.9	16
43	A sensitive surface-enhanced Raman scattering method for chondroitin sulfate with Victoria blue 4R molecular probes in nanogold sol substrate. <i>Luminescence</i> , 2018, 33, 131-137.	2.9	5
44	A new SERS strategy for quantitative analysis of trace microalbuminuria based on immunorecognition and graphene oxide nanoribbon catalysis. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 6099-6107.	6.7	12
45	White polymer light-emitting diodes based on dibenzo-24-crown-8 decorated orange-emitting iridium complexes. <i>Journal of Organometallic Chemistry</i> , 2018, 877, 68-72.	1.8	2
46	Photophysical performances and morphology of phosphorescent electrospun fibres fabricated from iridium complex/PMMA blends. <i>Micro and Nano Letters</i> , 2018, 13, 936-940.	1.3	1
47	Novel yellow phosphorescent iridium complexes with dibenzothiophene-S,S-dioxide-based cyclometalated ligand for white polymer light-emitting diodes. <i>Dyes and Pigments</i> , 2018, 159, 637-645.	3.7	14
48	A Sensitive Gold Nanoplasmonic SERS Quantitative Analysis Method for Sulfate in Serum Using Fullerene as Catalyst. <i>Nanomaterials</i> , 2018, 8, 277.	4.1	11
49	A simple gold nanoplasmonic SERS method for trace Hg ²⁺ based on aptamer-regulating graphene oxide catalysis. <i>Luminescence</i> , 2018, 33, 1113-1121.	2.9	15
50	A facile and highly sensitive resonance Rayleigh scattering-energy transfer method for urea using a fullerene probe. <i>RSC Advances</i> , 2018, 8, 29008-29012.	3.6	9
51	A sensitive SERS quantitative analysis method for Ni ²⁺ by the dimethylglyoxime reaction regulating a graphene oxide nanoribbon catalytic gold nanoreaction. <i>Luminescence</i> , 2018, 33, 1033-1039.	2.9	7
52	Immunocontrolling Graphene Oxide Catalytic Nanogold Reaction and Its Application to SERS Quantitative Analysis. <i>ACS Omega</i> , 2017, 2, 7349-7358.	3.5	18
53	Electroluminescent Performances of Iridium Complexes with Dibenzo-18-crown-6. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2017, 27, 941-947.	3.7	0
54	Sky-blue phosphorescent organic light-emitting diodes with dibenzo-24-crown-8 substituted iridium(III) complexes as the dopants. <i>Dyes and Pigments</i> , 2017, 138, 77-82.	3.7	9

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55	Resonance Rayleigh Scattering and SERS Spectral Detection of Trace Hg(II) Based on the Gold Nanocatalysis. <i>Nanomaterials</i> , 2017, 7, 114.	4.1	22
56	A facile and sensitive peptide-modulating graphene oxide nanoribbon catalytic nanoplasmon analytical platform for human chorionic gonadotropin. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 8725-8734.	6.7	17
57	Solution-processable deep red-emitting supramolecular phosphorescent polymer with novel iridium complex for organic light-emitting diodes. <i>Electronic Materials Letters</i> , 2016, 12, 615-621.	2.2	10
58	Novel iridium complexes as yellow phosphorescent emitters for single-layer yellow and white polymer light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6626-6633.	5.5	13
59	Enhanced emission of CaNb ₂ O ₆ : Sm ³⁺ phosphor by codoping Na ⁺ /B ³⁺ and the emission properties. <i>Bulletin of Materials Science</i> , 2016, 39, 187-193.	1.7	6
60	Supramolecular green phosphorescent polymer iridium complexes for solution-processed nondoped organic light-emitting diodes. <i>Journal of Organometallic Chemistry</i> , 2016, 804, 1-5.	1.8	4
61	A novel cyclometalated Iridium(<i>scp</i>) complex containing dibenzo-24-crown-8: synthesis, luminescence and application in highly efficient green phosphorescent OLEDs. <i>RSC Advances</i> , 2015, 5, 49466-49470.	3.6	10
62	White light-emitting diodes based on an all-phosphorescent supramolecular polymer. <i>Polymer Chemistry</i> , 2015, 6, 6202-6207.	3.9	23
63	Solution-processable supramolecular phosphorescent polymer iridium complexes for red organic light-emitting diodes. <i>Materials Letters</i> , 2015, 161, 572-575.	2.6	4
64	Recent Progresses of Iridium Complex-Containing Macromolecules for Solution-Processed Organic Light-Emitting Diodes. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2014, 24, 905-926.	3.7	19
65	An ultrasensitive SERS method for the determination of ozone using a nanogold sol as substrate and rhodamine S as probe. <i>RSC Advances</i> , 2014, 4, 959-962.	3.6	9
66	A series of blue supramolecular polymers with different counterions for polymer light-emitting diodes. <i>Chemical Communications</i> , 2014, 50, 8227.	4.1	16
67	A new resonance Rayleigh scattering method for the determination of trace O ₃ in air using rhodamine 6G as probe. <i>RSC Advances</i> , 2013, 3, 6627.	3.6	14
68	A new resonance Rayleigh scattering method for trace Pb, coupling the hydride generation reaction with nanogold formation. <i>RSC Advances</i> , 2013, 3, 12585.	3.6	15
69	Novel cyclometalated platinum (II) complex containing carrier-transporting groups: Synthesis, luminescence and application in single dopant white PLEDs. <i>Dyes and Pigments</i> , 2013, 96, 732-737.	3.7	19
70	A Highly Sensitive Enzyme Catalytic Method for the Detection of Ethanol Based on Resonance Scattering Effect of Gold Particles. <i>Plasmonics</i> , 2013, 8, 307-312.	3.4	7
71	A highly sensitive resonance Rayleigh scattering method for hemin based on the nanogold-aptamer probe catalysis of the HAuCl ₄ -citrate particle reaction. <i>RSC Advances</i> , 2013, 3, 17703.	3.6	10
72	Resonance scattering spectrum detection of trace using nanogold probe as catalyst of Cu(II)-glucose reaction. <i>International Journal of Environmental Analytical Chemistry</i> , 2013, 93, 377-385.	3.3	3

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73	A Rapid Surface-Enhanced Raman Scattering Method for the Determination of Trace Hg ²⁺ Using Rhodamine 6G-Aggregated Nanosilver as Probe. <i>Plasmonics</i> , 2012, 7, 461-468.	3.4	18
74	A Sensitive Surface-Enhanced Raman Scattering Method for Determination of Melamine with Aptamer-Modified Nanosilver Probe. <i>Chinese Journal of Chemistry</i> , 2012, 30, 869-874.	4.9	27
75	A Simple and Sensitive Label-Free Immunoassay for Factor B Using Resonance Scattering Spectral Detection. <i>Chinese Journal of Chemistry</i> , 2012, 30, 1636-1640.	4.9	2
76	Free-Labeled Nanogold Catalytic Detection of Trace UO ₂ ²⁺ Based on the Aptamer Reaction and Gold Particle Resonance Scattering Effect. <i>Plasmonics</i> , 2012, 7, 185-190.	3.4	19
77	A New Nanocatalytic Spectrophotometric Assay for Cationic Surfactant Using Phosphomolybdic Acid-Formic Acid-Nanogold as Indicator Reaction. <i>Chinese Journal of Chemistry</i> , 2012, 30, 59-64.	4.9	6
78	Resonance scattering spectral detection of trace ATP based on label-free aptamer reaction and nanogold catalysis. <i>Analyst</i> , 2011, 136, 4514.	3.5	40
79	Catalysis of aptamer-modified AuPd nanoalloy probe and its application to resonance scattering detection of trace UO ₂ ²⁺ . <i>Nanoscale</i> , 2011, 3, 3178.	5.6	36
80	A Highly Sensitive Aptamer-Nanogold Catalytic Resonance Scattering Spectral Assay for Melamine. <i>Journal of Fluorescence</i> , 2011, 21, 1907-1912.	2.5	27
81	A novel and sensitive resonance scattering assay for detection of urea in serum coupled urease catalytic reaction and NH ₄ ⁺ associated particle reaction. <i>Bioprocess and Biosystems Engineering</i> , 2011, 34, 639-645.	3.4	4
82	A Simple and Sensitive Resonance Scattering Spectral Assay for Detection of Melamine Using Aptamer-Modified Nanosilver Probe. <i>Plasmonics</i> , 2011, 6, 387-392.	3.4	11
83	Resonance Scattering Detection of Trace Hg ²⁺ Using Aptamer-Modified AuPd Nanoalloy Probe as Catalyst. <i>Chinese Journal of Chemistry</i> , 2011, 29, 1769-1773.	4.9	1
84	Resonance Scattering Effect of Dopamine Product Particle and Its Application to Polyphenoloxidase Activity Assay. <i>Chinese Journal of Chemistry</i> , 2011, 29, 544-548.	4.9	3
85	A New and Sensitive Catalytic Resonance Scattering Spectral Assay for the Detection of Laccase Activity Using H ₂ O ₂ -TDMAC System. <i>Chinese Journal of Chemistry</i> , 2011, 29, 787-792.	4.9	6
86	A Highly Sensitive Resonance Scattering Spectral Assay for Hg ²⁺ Based on the Aptamer-Modified AuRu Nanoparticle-NaClO ₃ -Nal-Cationic Surfactant Catalytic Reaction. <i>Analytical Letters</i> , 2011, 44, 1442-1453.	1.8	12
87	A New Immunonanogold Graphite Furnace Atomic Absorption Spectral Assay for Human Chorionic Gonadotrophin. <i>Analytical Letters</i> , 2011, 44, 2162-2169.	1.8	11