Yang-Wei Lin

List of Publications by Year
in descending order

93 papers	3,454 citations	117571 34 h-index	149623 56 g-index
97 all docs	97 docs citations	97 times ranked	4653 citing authors

#	Article	IF	Citations
1	Gold nanoparticle probes for the detection of mercury, lead and copper ions. Analyst, The, 2011, 136, 863-871.	1.7	353
2	Fluorescence Detection of Lead(II) Ions Through Their Induced Catalytic Activity of DNAzymes. Analytical Chemistry, 2011, 83, 225-230.	3.2	156
3	Selective Detection of Iodide and Cyanide Anions Using Gold-Nanoparticle-Based Fluorescent Probes. ACS Applied Materials & Interfaces, 2012, 4, 2652-2658.	4.0	123
4	Photo-assisted synthesis of highly fluorescent ZnSe(S) quantum dots in aqueous solution. Journal of Materials Chemistry, 2007, 17, 2661.	6.7	104
5	Using a Layer-by-Layer Assembly Technique to Fabricate Multicolored-Light-Emitting Films of CdSe@CdS and CdTe Quantum Dots. Advanced Materials, 2006, 18, 1381-1386.	11.1	97
6	Catalytic gold nanoparticles for fluorescent detection of mercury(II) and lead(II) ions. Analytica Chimica Acta, 2012, 745, 124-130.	2.6	91
7	A simple strategy for improving the energy conversion of multilayered CdTe quantum dot-sensitized solar cells. Journal of Materials Chemistry, 2009, 19, 2349.	6.7	90
8	Fluorescent Detection of Lead in Environmental Water and Urine Samples Using Enzyme Mimics of Catechin-Synthesized Au Nanoparticles. ACS Applied Materials & Interfaces, 2013, 5, 1503-1509.	4.0	87
9	Aptamer-modified gold nanoparticles for targeting breast cancer cells through light scattering. Journal of Nanoparticle Research, 2009, 11, 775-783.	0.8	86
10	Photoassisted Synthesis of CdSe and Coreâ"Shell CdSe/CdS Quantum Dots. Langmuir, 2005, 21, 728-734.	1.6	79
11	Nanomaterial-based surface-assisted laser desorption/ionization mass spectrometry of peptides and proteins. Journal of the American Society for Mass Spectrometry, 2010, 21, 1204-1207.	1.2	77
12	Fluorescence detection of mercury(II) and lead(II) ions using aptamer/reporter conjugates. Talanta, 2011, 84, 324-329.	2.9	75
13	Detection of Proteins and Proteinâ"Ligand Complexes Using HgTe Nanostructure Matrixes in Surface-Assisted Laser Desorption/Ionization Mass Spectrometry. Analytical Chemistry, 2010, 82, 4543-4550.	3.2	70
14	Nanomaterials and chip-based nanostructures for capillary electrophoretic separations of DNA. Electrophoresis, 2005, 26, 320-330.	1.3	68
15	Growth of various Auâ€"Ag nanocomposites from gold seeds in amino acid solutions. Nanotechnology, 2006, 17, 4885-4894.	1.3	67
16	Enhanced photocatalytic performance of BiVO 4 in aqueous AgNO 3 solution under visible light irradiation. Applied Surface Science, 2017, 399, 10-19.	3.1	63
17	Fluorescence detection of single nucleotide polymorphisms using a universal molecular beacon. Nucleic Acids Research, 2008, 36, e123-e123.	6.5	60
18	DNA functionalized gold nanoparticles for bioanalysis. Analytical Methods, 2009, 1, 14.	1.3	60

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19	Analysis of biologically active amines by CE. Electrophoresis, 2006, 27, 4792-4807.	1.3	59
20	Analysis of double-stranded DNA by microchip capillary electrophoresis using polymer solutions containing gold nanoparticles. Journal of Chromatography A, 2003, 1014, 47-55.	1.8	55
21	Surface-enhanced Raman scattering active gold nanoparticle/nanohole arrays fabricated through electron beam lithography. Applied Surface Science, 2018, 435, 1143-1149.	3.1	55
22	Laser-induced fluorescence technique for DNA and proteins separated by capillary electrophoresis. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2003, 793, 37-48.	1.2	54
23	Microwave-assisted synthesis of bovine serum albuminâ€“gold nanoclusters and their fluorescence-quenched sensing of Hg²⁺ ions. New Journal of Chemistry, 2016, 40, 1155-1161.	1.4	54
24	Accurate quantitation of glutathione in cell lysates through surface-assisted laser desorption/ionization mass spectrometry using gold nanoparticles. Nanomedicine: Nanotechnology, Biology, and Medicine, 2010, 6, 530-537.	1.7	53
25	A highly selective and sensitive fluorescence assay for determination of copper(ii) and cobalt(ii) ions in environmental water and toner samples. Analyst, The, 2013, 138, 1232.	1.7	52
26	On-line concentration of trace proteins by pH junctions in capillary electrophoresis with UV absorption detection. Journal of Chromatography A, 2002, 979, 261-270.	1.8	49
27	Fluorescence detection of single-nucleotide polymorphisms using a thymidine-based molecular beacon. Biosensors and Bioelectronics, 2009, 24, 2541-2546.	5.3	49
28	Ligand effect on the luminescence of gold nanodots and its application for detection of total mercury ions in biological samples. RSC Advances, 2013, 3, 4588.	1.7	48
29	Quantification of captopril in urine through surface-assisted laser desorption/ionization mass spectrometry using 4-mercaptobenzoic acid-capped gold nanoparticles as an internal standard. Journal of the American Society for Mass Spectrometry, 2010, 21, 864-867.	1.2	46
30	Improved Separation of Microheterogeneities and Isoforms of Proteins by Capillary Electrophoresis Using Segmental Filling with SDS and PEO in the Background Electrolyte. Analytical Chemistry, 2002, 74, 4828-4834.	3.2	44
31	Determination of tertiary amines based on pH junctions and field amplification in capillary electrophoresis with electrochemiluminescence detection. Electrophoresis, 2005, 26, 2984-2990.	1.3	36
32	Selective growth of gold nanoparticles onto tellurium nanowires via a green chemical route. Journal of Materials Chemistry, 2008, 18, 2569.	6.7	36
33	Controlled synthesis, characterization and photocatalytic activity of BiPO₄ nanostructures with different morphologies. Materials Research Express, 2014, 1, 025023.	0.8	36
34	Manipulation of the Growth of Gold and Silver Nanomaterials on Glass by Seeding Approach. Langmuir, 2007, 23, 1435-1442.	1.6	35
35	Modification of poly(methyl methacrylate) microchannels for highly efficient and reproducible electrophoretic separations of double-stranded DNA. Journal of Chromatography A, 2005, 1073, 191-199.	1.8	32
36	A dipole-assisted solid-phase extraction microchip combined with inductively coupled plasma-mass spectrometry for online determination of trace heavy metals in natural water. Analyst, The, 2015, 140, 600-608.	1.7	31

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37	Synthesis of novel benzothiazole compounds with an extended conjugated system. Arkivoc, 2008, 2007, 113-122.	0.3	31
38	Capillary electrophoretic separation of biologically active amines and acids using nanoparticleâ€coated capillaries. Electrophoresis, 2008, 29, 1942-1951.	1.3	30
39	LED irradiation of halogen/nitrogen-doped polymeric graphene quantum dots triggers the photodynamic inactivation of bacteria in infected wounds. Carbon, 2021, 174, 710-722.	5.4	30
40	A non-aggregation colorimetric method for trace lead(<scp>ii</scp>) ions based on the leaching of gold nanorods. Analytical Methods, 2014, 6, 7234-7242.	1.3	28
41	Synthesis, characterization, enhanced sunlight photocatalytic properties, and stability of Ag/Ag₃PO₄nanostructure-sensitized BiPO₄. RSC Advances, 2015, 5, 43854-43862.	1.7	28
42	Microwave-Assisted Formation of Gold Nanoclusters Capped in Bovine Serum Albumin and Exhibiting Red or Blue Emission. Journal of Physical Chemistry C, 2017, 121, 26997-27003.	1.5	28
43	Fluorescent detection of uric acid in biological samples through the inhibition of cobalt(II) catalyzed Amplex UltraRed. Sensors and Actuators B: Chemical, 2017, 244, 357-364.	4.0	27
44	Preparation and characterization of bismuth oxychloride/reduced graphene oxide for photocatalytic degradation of rhodamine B under white-light light-emitting-diode and sunlight irradiation. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 371, 355-364.	2.0	27
45	A facile colorimetric assay for determination of salicylic acid in tobacco leaves using titanium dioxide nanoparticles. Analytical Methods, 2014, 6, 1759-1765.	1.3	26
46	Impacts that pH and metal ion concentration have on the synthesis of bimetallic and trimetallic nanorods from gold seeds. Journal of Materials Chemistry, 2005, 15, 2450.	6.7	25
47	A simple, rapid, and sensitive method for analysis of SYPRO Red labeled sodium dodecyl sulfate-protein complexes by capillary electrophoresis with laser-induced fluorescence. Electrophoresis, 2003, 24, 1730-1736.	1.3	24
48	Control of the Surface Charges of Auâ^'Ag Nanorods:â€‰ Selective Detection of Iron in the Presence of Poly(sodium 4-styrenesulfonate). Langmuir, 2007, 23, 12777-12781.	1.6	24
49	Exploring the Stability of Gold Nanoparticles by Experimenting with Adsorption Interactions of Nanomaterials in an Undergraduate Lab. Journal of Chemical Education, 2015, 92, 1066-1070.	1.1	24
50	Exploring the interactions between gold nanoparticles and analytes through surfaceâ€assisted laser desorption/ionization mass spectrometry. Rapid Communications in Mass Spectrometry, 2010, 24, 933-938.	0.7	23
51	Electrochemical Synthesis and Deposition of Surface-Enhanced Raman Scattering-Active Silver Microstructures on a Screen-Printed Carbon Electrode. Journal of Physical Chemistry C, 2015, 119, 24865-24874.	1.5	23
52	Determination of mercury (II) ions based on silver-nanoparticles-assisted growth of gold nanostructures: UVâ€“Vis and surface enhanced Raman scattering approaches. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 199, 301-307.	2.0	23
53	Fluorescence sensing of mercury(<scp>ii</scp>) and melamine in aqueous solutions through microwave-assisted synthesis of egg-white-protected gold nanoclusters. Analytical Methods, 2018, 10, 1624-1632.	1.3	22
54	DNA engineered copper oxide-based nanocomposites with multiple enzyme-like activities for specific detection of mercury species in environmental and biological samples. Analytica Chimica Acta, 2019, 1084, 106-115.	2.6	22

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55	Facile Synthesis and Characterization of Ag3PO4 Microparticles for Degradation of Organic Dyestuffs under White-Light Light-Emitting-Diode Irradiation. Materials, 2018, 11, 708.	1.3	21
56	DNA analysis on microfabricated electrophoretic devices with bubble cells. Electrophoresis, 2002, 23, 2477-2484.	1.3	20
57	Estimation of tea catechin levels using micellar electrokinetic chromatography: A quantitative approach. Food Chemistry, 2014, 150, 145-150.	4.2	20
58	Solvothermal synthesis of Ag hybrid BiPO4 heterostructures with enhanced photodegradation activity and stability. Journal of Colloid and Interface Science, 2017, 490, 217-225.	5.0	20
59	Carbon quantum dots for the detection of antibiotics and pesticides. Journal of Food and Drug Analysis, 2020, 28, 540-558.	0.9	20
60	Detection of mercury and phenylmercury ions using DNA-based fluorescent probe. Analyst, The, 2011, 136, 3323.	1.7	17
61	Photoelectrocatalytic degradation of methylene blue on cadmium sulfideâ€“sensitized titanium dioxide film. Materials Research Bulletin, 2019, 118, 110500.	2.7	15
62	Separation of total lipids on human lipoproteins using surfactantâ€coated multiwalled carbon nanotubes as pseudostationary phase in capillary electrophoresis. Electrophoresis, 2014, 35, 978-985.	1.3	13
63	Microwave-assisted synthesis of BSA-stabilised gold nanoclusters for the sensitive and selective detection of lead(<scp>ii</scp>) and melamine in aqueous solution. RSC Advances, 2016, 6, 79020-79027.	1.7	13
64	Determination of salicylic acid using a magnetic iron oxide nanoparticle-based solid-phase extraction procedure followed by an online concentration technique through micellar electrokinetic capillary chromatography. Journal of Chromatography A, 2017, 1479, 62-70.	1.8	13
65	Influences of silver halides AgX (Xâ€¯=â€¯Cl, Br, and I) on magnesium bismuth oxide photocatalyst in methylene blue degradation under visible light irradiation. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 397, 112585.	2.0	12
66	Analysis of double-stranded DNA by capillary electrophoresis using poly(ethylene oxide) in the presence of hexadecyltrimethylammonium bromide. Journal of Chromatography A, 2006, 1130, 206-211.	1.8	11
67	Synthesis and characterization of Ag/Ag3PO4 nanomaterial modified BiPO4 photocatalyst by sonochemical method and its photocatalytic application. Journal of Materials Science: Materials in Electronics, 2017, 28, 11886-11899.	1.1	11
68	Synthesis and characterization of Zn x Hg1â^'x Se y S1â^'y quantum dots. Journal of Nanoparticle Research, 2010, 12, 1377-1388.	0.8	10
69	Dendritic Forest-Like Ag Nanostructures Prepared Using Fluoride-Assisted Galvanic Replacement Reaction for SERS Applications. Nanomaterials, 2021, 11, 1359.	1.9	10
70	Hydrothermal and Co-Precipitated Synthesis of Chalcopyrite for Fenton-like Degradation toward Rhodamine B. Catalysts, 2022, 12, 152.	1.6	10
71	Synthesis and Properties of Water-Soluble Coreâ€“Shellâ€“Shell Silicaâ€“CdSe/CdSâ€“Silica Nanoparticles. Journal of Nanoscience and Nanotechnology, 2006, 6, 1092-1100.	0.9	9
72	Surface-enhanced Raman scattering-active desert-rose-like Ag mesoparticles prepared using cyclic voltammetric methods. RSC Advances, 2015, 5, 93293-93300.	1.7	9

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73	Surface-enhanced Raman scattering enhancement due to localized surface plasmon resonance coupling between metallic nanoparticles and substrate. Microchemical Journal, 2018, 138, 340-347.	2.3	9
74	Salicylic acidâ€sensitised titanium dioxide for photocatalytic degradation of fast green FCF under visible light irradiation. Micro and Nano Letters, 2019, 14, 359-362.	0.6	9
75	Capillary electrophoretic separation of dsDNA under nonuniform electric fields. Analytical and Bioanalytical Chemistry, 2003, 376, 379-383.	1.9	8
76	Label-Free Colorimetric Detection of Mercury (II) Ions Based on Gold Nanocatalysis. Sensors, 2018, 18, 2807.	2.1	8
77	Microwave-Assisted Synthesis of Chalcopyrite/Silver Phosphate Composites with Enhanced Degradation of Rhodamine B under Photo-Fenton Process. Nanomaterials, 2020, 10, 2300.	1.9	8
78	Enhanced Visible Light Photocatalytic Degradation of Methylene Blue by CdS-ZnS-BiPO4 Nanocomposites Prepared by a Solvent-Assisted Heating Method. Catalysts, 2021, 11, 1095.	1.6	8
79	Silicon-Based Ag Dendritic Nanoforests for Light-Assisted Bacterial Inhibition. Nanomaterials, 2020, 10, 2244.	1.9	7
80	Determination of Hg(II) based on the inhibited catalytic growth of surface-enhanced Raman scattering-active gold nanoparticles on a patterned hydrophobic paper substrate. Microchemical Journal, 2020, 157, 104983.	2.3	7
81	Au@Ag Dendritic Nanoforests for Surface-Enhanced Raman Scattering Sensing. Nanomaterials, 2021, 11, 1736.	1.9	6
82	Proton-Conducting Cobalt(II) 3D MOFs Incorporating Bis(imidazole) and Polycarboxylate Linkages: Framework Topology and Interpenetration. Crystal Growth and Design, 2021, 21, 5594-5602.	1.4	6
83	Gold Nanosponges: Green Synthesis, Characterization, and Cytotoxicity. Journal of Nanoscience and Nanotechnology, 2013, 13, 6566-6574.	0.9	5
84	Using electrospray ionization mass spectrometry to explore the interactions among polythymine oligonucleotides, ethidium bromide, and mercury ions. Journal of the American Society for Mass Spectrometry, 2009, 20, 1834-1840.	1.2	4
85	Green Synthesis of Gold/Silver Hybrid Nanostructures for Surfaceenhanced Raman Scattering Spectroscopy. Current Nanoscience, 2014, 10, 613-620.	0.7	3
86	Facile synthesis of Ag ₃ PO ₄ microcrystals and its enhanced photocatalytic disinfection. Micro and Nano Letters, 2018, 13, 1570-1573.	0.6	2
87	Colorimetric Bioassay Using Noble Metal Nanoparticles. , 2012, , 29-56.		1
88	Controlled synthesis of Ag ₃ PO ₄ microparticles with different morphologies and their photocatalytic degradation of rhodamine B under white lightâ€emitting diode irradiation. Micro and Nano Letters, 2019, 14, 363-366.	0.6	1
89	A Colorimetric Sensing of Hg(II) Ions Using 3-Mercaptopropionic Acid Modified Au Nanoparticles for the Undergraduate Chemistry Laboratory Curriculum. Journal of Nano Education (Print), 2015, 7, 1-9.	0.3	1
90	Tannic acid as a chemosensor for colorimetric detection of Fe(<scp>II</scp>) and Au(<scp>III</scp>) ions in environmental water samples. Journal of the Chinese Chemical Society, 2022, 69, 549-556.	0.8	1

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91	Fabrication of a Dipole-assisted Solid Phase Extraction Microchip for Trace Metal Analysis in Water Samples. Journal of Visualized Experiments, 2016, , .	0.2	0
92	Synthesis of molybdenumâ€“silver orthophosphate composites for the visible-light photocatalytic degradation of various dyestuff and phenol. Journal of Materials Science: Materials in Electronics, 2020, 31, 2177-2189.	1.1	0
93	Education of Nanoscience: Introduction to the Preparation, Characterization, and Application of Gold Nanoparticles. , 0, , .		0