

# Min Su Han

## List of Publications by Year in descending order

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103  
papers

6,991  
citations

159525

30  
h-index

56687

83  
g-index

107  
all docs

107  
docs citations

107  
times ranked

8769  
citing authors

#	ARTICLE	IF	CITATIONS
1	Oligonucleotide-Modified Gold Nanoparticles for Intracellular Gene Regulation. <i>Science</i> , 2006, 312, 1027-1030.	6.0	1,838
2	Colorimetric Detection of Mercuric Ion (Hg <sup>2+</sup> ) in Aqueous Media using DNA-Functionalized Gold Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4093-4096.	7.2	1,203
3	A DNA-Gold Nanoparticle-Based Colorimetric Competition Assay for the Detection of Cysteine. <i>Nano Letters</i> , 2008, 8, 529-533.	4.5	459
4	Gold nanoparticle-based colorimetric detection of kanamycin using a DNA aptamer. <i>Analytical Biochemistry</i> , 2011, 415, 175-181.	1.1	369
5	Colorimetric Nitrite and Nitrate Detection with Gold Nanoparticle Probes and Kinetic End Points. <i>Journal of the American Chemical Society</i> , 2009, 131, 6362-6363.	6.6	325
6	Naked-Eye Detection of Phosphate Ions in Water at Physiological pH: A Remarkably Selective and Easy-To-Assemble Colorimetric Phosphate-Sensing Probe. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 3809-3811.	7.2	261
7	A Gold-Nanoparticle-Based Real-Time Colorimetric Screening Method for Endonuclease Activity and Inhibition. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3468-3470.	7.2	257
8	Colorimetric Screening of DNA-Binding Molecules with Gold Nanoparticle Probes. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 1807-1810.	7.2	216
9	Coumarin-derivative-based off-on catalytic chemodosimeter for Cu <sup>2+</sup> ions. <i>Chemical Communications</i> , 2009, , 4838.	2.2	169
10	A Gold Nanoparticle Based Approach for Screening Triplex DNA Binders. <i>Journal of the American Chemical Society</i> , 2006, 128, 4954-4955.	6.6	153
11	A gold nanoparticle-based colorimetric sensing ensemble for the colorimetric detection of cyanide ions in aqueous solution. <i>Tetrahedron Letters</i> , 2010, 51, 4712-4716.	0.7	78
12	Microarray Detection of Duplex and Triplex DNA Binders with DNA-Modified Gold Nanoparticles. <i>Analytical Chemistry</i> , 2007, 79, 6037-6041.	3.2	70
13	Screening the Sequence Selectivity of DNA-Binding Molecules Using a Gold Nanoparticle-Based Colorimetric Approach. <i>Analytical Chemistry</i> , 2007, 79, 7201-7205.	3.2	68
14	Rationally designed chromogenic chemosensor that detects cysteine in aqueous solution with remarkable selectivity. <i>Tetrahedron</i> , 2004, 60, 11251-11257.	1.0	65
15	Effective delivery of anti-miRNA DNA oligonucleotides by functionalized gold nanoparticles. <i>Journal of Biotechnology</i> , 2011, 155, 287-292.	1.9	61
16	A highly sensitive gold nanoparticle-based colorimetric probe for pyrophosphate using a competition assay approach. <i>Chemical Communications</i> , 2013, 49, 152-154.	2.2	56
17	A functionalized gold nanoparticles-assisted universal carrier for antisense DNA. <i>Chemical Communications</i> , 2010, 46, 4151.	2.2	48
18	A Colorimetric High-Throughput Screening Method for Palladium-Catalyzed Coupling Reactions of Aryl Iodides Using a Gold Nanoparticle-Based Iodide-Selective Probe. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 4386-4389.	7.2	46

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19	Gold nanoparticle-based colorimetric chiral discrimination of histidine: application to determining the enantiomeric excess of histidine. <i>Analytical Methods</i> , 2014, 6, 73-76.	1.3	44
20	Detection of mismatched DNAs via the binding affinity of MutS using a gold nanoparticle-based competitive colorimetric method. <i>Chemical Communications</i> , 2008, , 4573.	2.2	42
21	Delivery of shRNA using gold nanoparticle-DNA oligonucleotide conjugates as a universal carrier. <i>Biochemical and Biophysical Research Communications</i> , 2010, 398, 542-546.	1.0	42
22	A fluorescent probe for butyrylcholinesterase activity in human serum based on a fluorophore with specific binding affinity for human serum albumin. <i>Chemical Communications</i> , 2019, 55, 14574-14577.	2.2	41
23	Palladium-catalyzed hydrodehalogenation of aryl halides using paraformaldehyde as the hydride source: high-throughput screening by paper-based colorimetric iodide sensor. <i>Tetrahedron Letters</i> , 2013, 54, 5207-5210.	0.7	40
24	A colorimetric selective sensing probe for calcium ions with tunable dynamic ranges using cytidine triphosphate stabilized gold nanoparticles. <i>Chemical Communications</i> , 2011, 47, 10299.	2.2	36
25	Modulation of biological processes in the nucleus by delivery of DNA oligonucleotides conjugated with gold nanoparticles. <i>Biomaterials</i> , 2011, 32, 2593-2604.	5.7	34
26	A bi-ligand co-functionalized gold nanoparticles-based calcium ion probe and its application to the detection of calcium ions in serum. <i>Chemical Communications</i> , 2012, 48, 5566.	2.2	34
27	A simple method for improving the optical properties of a dimetallic coordination fluorescent chemosensor for adenosine triphosphate. <i>Tetrahedron Letters</i> , 2009, 50, 6241-6243.	0.7	33
28	Anticancer effect of luteolin is mediated by downregulation of TAM receptor tyrosine kinases, but not interleukin-8, in non-small cell lung cancer cells. <i>Oncology Reports</i> , 2017, 37, 1219-1226.	1.2	32
29	Visual detection of AMP and real-time monitoring of cyclic nucleotide phosphodiesterase (PDE) activity in neutral aqueous solution. <i>Chemosensor-coupled assay of PDE and PDE inhibitors. Bioorganic and Medicinal Chemistry Letters</i> , 2003, 13, 1079-1082.	1.0	31
30	Development of Human Serum Albumin Selective Fluorescent Probe Using Thieno[3,2-b]pyridine-5(4H)-one Fluorophore Derivatives. <i>Sensors</i> , 2019, 19, 5298.	2.1	31
31	Gold nanoparticle-assisted delivery of small, highly structured RNA into the nuclei of human cells. <i>Biochemical and Biophysical Research Communications</i> , 2011, 416, 178-183.	1.0	30
32	Effect of zinc ion on the inhibition of carboxypeptidase A by imidazole-bearing substrate analogues. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2001, 11, 1425-1427.	1.0	28
33	Development of a fluorescent chemosensor for chloride ion detection in sweat using Ag <sup>+</sup> -benzimidazole complexes. <i>Dyes and Pigments</i> , 2020, 177, 108291.	2.0	28
34	Metal-Free, Rapid, and Highly Chemoselective Reduction of Aromatic Nitro Compounds at Room Temperature. <i>Journal of Organic Chemistry</i> , 2022, 87, 910-919.	1.7	27
35	Palladium-catalyzed C-S bond formation by using N-amido imidazolium salts as ligands. <i>Tetrahedron Letters</i> , 2013, 54, 6712-6715.	0.7	26
36	Enantioselective Alkynylation of Trifluoromethyl Ketones Catalyzed by Cation-Binding Salen Nickel Complexes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 775-779.	7.2	26

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37	A simple, fast, and easy assay for transition metal-catalyzed coupling reactions using a paper-based colorimetric iodide sensor. <i>Chemical Communications</i> , 2012, 48, 8751.	2.2	24
38	High-Throughput Screening Protocol for the Coupling Reactions of Aryl Halides Using a Colorimetric Chemosensor for Halide Ions. <i>Organic Letters</i> , 2016, 18, 1720-1723.	2.4	24
39	A hydrazone-based turn-on fluorescent probe for peroxyxynitrite detection and live-cell imaging. <i>Dyes and Pigments</i> , 2019, 171, 107762.	2.0	23
40	Selective Colorimetric Sensor for Hg <sup>2+</sup> Ions Using a Mixture of Thiourea Derivatives and Gold Nanoparticles Stabilized with Adenosine Triphosphate. <i>Chemistry - an Asian Journal</i> , 2010, 5, 2463-2466.	1.7	22
41	A direct assay of butyrylcholinesterase activity using a fluorescent substrate. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 8815-8820.	1.5	22
42	A colorimetric sensor for hydrogen sulfide detection using direct inhibition of active site in G-quadruplex DNAzyme. <i>Dyes and Pigments</i> , 2017, 139, 187-192.	2.0	21
43	Metal-containing Trifurcate Chemosensing Ensemble for Phytate. <i>Supramolecular Chemistry</i> , 2007, 19, 315-320.	1.5	19
44	Inhibition of xenograft tumor growth in mice by gold nanoparticle-assisted delivery of short hairpin RNAs against Mcl-1L. <i>Journal of Biotechnology</i> , 2011, 156, 89-94.	1.9	19
45	Simple synthesis of high-quality CdS nanowires using Au nanoparticles as catalyst. <i>Journal of Alloys and Compounds</i> , 2016, 659, 38-43.	2.8	19
46	Molecular probe for selective detection of thiols in water of neutral pH. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003, 13, 2543-2546.	1.0	18
47	A long-term stable paper-based glucose sensor using a glucose oxidase-loaded, Mn <sup>2+</sup> BPMP-conjugated nanocarrier with a smartphone readout. <i>Nanoscale</i> , 2021, 13, 4467-4474.	2.8	18
48	Fluorescein derivative-based, selective and sensitive chemosensor for NADH. <i>Tetrahedron Letters</i> , 2010, 51, 3775-3778.	0.7	17
49	Metal ion-prompted pyrene excimer formation via an anion-mediated process and its application for a ratiometric Zn <sup>2+</sup> chemosensor with high selectivity over Cd <sup>2+</sup> . <i>Tetrahedron Letters</i> , 2013, 54, 1654-1657.	0.7	17
50	A fluorescence-based glycosyltransferase assay for high-throughput screening. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 2571-2575.	1.4	17
51	Readily Available Fluorescence Probes for Zinc Ion in Aqueous Solution of Neutral pH. <i>Supramolecular Chemistry</i> , 2003, 15, 59-64.	1.5	14
52	An [Mn <sup>2+</sup> (bpmpp)] <sup>3+</sup> complex as an artificial peroxidase and its applications in colorimetric pyrophosphate sensing and cascade-type pyrophosphatase assay. <i>Analyst</i> , 2018, 143, 1780-1785.	1.7	14
53	A simple and efficient <i>in situ</i> generated copper nanocatalyst for stereoselective semihydrogenation of alkynes. <i>Chemical Communications</i> , 2021, 57, 6891-6894.	2.2	14
54	A colorimetric and fluorescent chemosensor for detection of Hg <sup>2+</sup> using counterion exchange of cationic polydiacetylene. <i>Tetrahedron Letters</i> , 2017, 58, 4340-4343.	0.7	13

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55	Co-functionalization with phosphate and carboxylate on polydiacetylene for colorimetric detection of calcium ions in serum. <i>Analyst, The</i> , 2019, 144, 7064-7070.	1.7	13
56	A simple turn-on fluorescent chemosensor for CO <sub>2</sub> based on aggregation-induced emission: Application as a CO <sub>2</sub> absorbent screening method. <i>Dyes and Pigments</i> , 2019, 162, 978-983.	2.0	13
57	Enhanced protein-mediated binding between oligonucleotide-gold nanoparticle composites and cell surfaces: co-transport of proteins and composites. <i>Journal of Materials Chemistry</i> , 2012, 22, 25036.	6.7	12
58	Highly sensitive gold nanoparticle-based colorimetric probe for phytate detection with high selectivity over various phosphate derivatives. <i>Tetrahedron Letters</i> , 2013, 54, 5284-5287.	0.7	12
59	Development of a highly selective colorimetric pyrophosphate probe based on a metal complex and gold nanoparticles: change in selectivity induced by metal ion tuning of the metal complex. <i>Tetrahedron Letters</i> , 2015, 56, 5030-5033.	0.7	11
60	A Fluorescent Probe for Selective Facile Detection of H <sub>2</sub> S in Serum Based on an Albumin-Binding Fluorophore and Effective Masking Reagent. <i>ACS Omega</i> , 2020, 5, 32507-32514.	1.6	11
61	Intra-molecular hydrogen bonding stabilization based-fluorescent chemosensor for CO <sub>2</sub> : Application to screen relative activities of CO <sub>2</sub> absorbents. <i>Dyes and Pigments</i> , 2015, 123, 125-131.	2.0	10
62	Pluronic-Based Nanocarrier Platform Encapsulating Two Enzymes for Cascade Reactions. <i>ACS Applied Bio Materials</i> , 2020, 3, 5126-5135.	2.3	10
63	Fluorometric Assay Protocol for Protease-Catalyzed Transesterification Reactions in Organic Solvents. <i>Journal of Organic Chemistry</i> , 2004, 69, 2853-2855.	1.7	9
64	pH-guided fluorescent sensing probe for the discriminative detection of Cl <sup>-</sup> and Br <sup>-</sup> in human serum. <i>Analytica Chimica Acta</i> , 2022, 1210, 339879.	2.6	9
65	Real-time colorimetric screening of endopeptidase inhibitors using adenosine triphosphate (ATP)-stabilized gold nanoparticles. <i>Tetrahedron Letters</i> , 2010, 51, 2228-2231.	0.7	8
66	Paper-Based Colorimetric Sensor System for High-Throughput Screening of C <sup>18</sup> H Borylation. <i>Chemistry - A European Journal</i> , 2017, 23, 6282-6285.	1.7	8
67	A colorimetric chemosensor for heptanal with selectivity over formaldehyde and acetaldehyde through synergistic interaction of hydrophobic interactions and oxime formation. <i>Analyst, The</i> , 2018, 143, 4592-4599.	1.7	8
68	Transition-Metal-Free Borylation of Aryl Bromide Using a Simple Diboron Source. <i>Journal of Organic Chemistry</i> , 2020, 85, 10966-10972.	1.7	8
69	Photocatalytic carbocarboxylation of styrenes with CO <sub>2</sub> for the synthesis of $\beta$ -aminobutyric esters. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 6301-6312.	1.5	8
70	Inhibition of $\beta$ -chymotrypsin with thiol-bearing substrate analogues in the presence of zinc ion. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004, 14, 701-705.	1.0	7
71	Hg <sup>2+</sup> -selective fluorogenic signaling probe based on the hydrolysis of hydrazone. <i>Tetrahedron Letters</i> , 2016, 57, 4360-4363.	0.7	7
72	Dithioether amide-Pd <sup>2+</sup> complex based-methionine fluorescent chemosensor with selectivity over cysteine and histidine. <i>Dyes and Pigments</i> , 2017, 144, 69-75.	2.0	7

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73	A Fluorescence-Based High-Throughput Screening Method for Olefin Metathesis Using a Ratiometric Fluorescent Probe. <i>Organic Letters</i> , 2020, 22, 1703-1708.	2.4	7
74	A Novel Strategy for Designing Irreversible Inhibitors of Metalloproteases: Acetals as Latent Electrophiles That Interact with Catalytic Nucleophile at the Active Site. <i>Organic Letters</i> , 2000, 2, 3149-3152.	2.4	6
75	Colorimetric assay for a fast parallel screening of NO <sub>x</sub> /NO <sub>x</sub> storage. <i>Journal of Catalysis</i> , 2006, 241, 470-474.	3.1	6
76	Organosilane-Patterned Paper-Based Colorimetric Sensors for High-Throughput Screening of Cross-Coupling Reactions with Aryl Bromides. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 3916-3923.	2.1	6
77	Colorimetric discrimination of nucleoside phosphates based on catalytic signal amplification strategy and its application to related enzyme assays. <i>Analyst</i> , The, 2021, 146, 463-470.	1.7	6
78	A ratiometric fluorescence probe for the selective detection of H <sub>2</sub> S in serum using a pyrene-DPA-Cd <sup>2+</sup> complex. <i>RSC Advances</i> , 2021, 11, 24410-24415.	1.7	6
79	Colorimetric assay for β-lactamase activity using cocktail of penicillin and 4-(2-pyridylazo)resorcinol (PAR)-Hg <sup>2+</sup> complex. <i>Dyes and Pigments</i> , 2017, 137, 518-522.	2.0	5
80	Ligand-free Suzuki-Miyaura cross-coupling with low Pd content: rapid development by a fluorescence-based high-throughput screening method. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 1009-1016.	1.5	5
81	Effective and prolonged targeting of a nanocarrier to the inflammation site by functionalization with ZnBPMP and chitosan. <i>Materials Science and Engineering C</i> , 2021, 131, 112521.	3.8	5
82	Thioether Amide Based-Fluorescent Chemosensors for Pd <sup>2+</sup> with High Selectivity over Pd <sup>0</sup> . <i>Bulletin of the Korean Chemical Society</i> , 2014, 35, 2189-2192.	1.0	4
83	Versatile small molecule kinase assay through real-time, ratiometric fluorescence changes based on a pyrene-DPA-Zn <sup>2+</sup> complex. <i>RSC Advances</i> , 2021, 11, 10375-10380.	1.7	3
84	A Gold Nanoparticles-Based Colorimetric Assay for DNA-Binding Molecules Using Non-Cross-Linking Aggregation. <i>Bulletin of the Korean Chemical Society</i> , 2012, 33, 1341-1344.	1.0	3
85	A Ligand Exchange-based Fluorogenic Assay for Cartap Using Cu <sup>2+</sup> -calcein Blue Complex. <i>Bulletin of the Korean Chemical Society</i> , 2014, 35, 3642-3644.	1.0	3
86	Aldehyde N,N-dimethylhydrazone-based fluorescent substrate for peroxidase-mediated assays. <i>RSC Advances</i> , 2022, 12, 8668-8673.	1.7	3
87	Sensitive fluorescence chemosensor for detection of thymidine nucleotides using Hg <sup>2+</sup> -benzo[g]quinazoline-2,4-(1H,3H)-dione complex. <i>Tetrahedron Letters</i> , 2015, 56, 5847-5850.	0.7	2
88	Development of a highly sensitive colorimetric thymidine triphosphate chemosensor using gold nanoparticles and the p-xylyl-bis(Hg <sup>2+</sup> -cyclen) complex: improved selectivity by metal ion tuning. <i>Tetrahedron Letters</i> , 2016, 57, 4484-4487.	0.7	2
89	Development of a Simple Assay Method for Adenosine Deaminase via Enzymatic Formation of an Inosine-Tb <sup>3+</sup> Complex. <i>Sensors</i> , 2019, 19, 2728.	2.1	2
90	Multi-screening of β-lactam antibiotics for β-lactamase resistance by means of a paper-based analytical device with a 4-(2-pyridylazo)resorcinol (PAR)-Hg <sup>2+</sup> complex. <i>Analytical Methods</i> , 2019, 11, 1729-1734.	1.3	2

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91	Preparation of Metal Oxides Containing ppm Levels of Pd as Catalysts for the Reduction of Nitroarene and Evaluation of Their Catalytic Activity by the Fluorescence-Based High-Throughput Screening Method. <i>Catalysts</i> , 2020, 10, 542.	1.6	2
92	New strategy to design fluorescent substrates of carboxypeptidases using a combination of dansylated peptides and albumin. <i>Dyes and Pigments</i> , 2021, 196, 109804.	2.0	2
93	Adenosine Triphosphate (ATP)-Stabilized Gold Nanoparticle Based-colorimetric Acetylcholinesterase Assay Method with High Signal/Noise Ratio in End-point Analysis. <i>Bulletin of the Korean Chemical Society</i> , 2011, 32, 329-331.	1.0	2
94	Quencher-free Oligonucleotide-based Fluorescent Probe for Pb <sup>2+</sup> -Ions. <i>Bulletin of the Korean Chemical Society</i> , 2012, 33, 316-318.	1.0	2
95	Enantioselective Alkynylation of Trifluoromethyl Ketones Catalyzed by Cation- $\pi$ -Binding Salen Nickel Complexes. <i>Angewandte Chemie</i> , 2020, 132, 785-789.	1.6	1
96	A Simplified Assay Method for Determining the Binding Affinities of DNA Binding Molecules to Duplex DNA. <i>Bulletin of the Korean Chemical Society</i> , 2009, 30, 2873-2874.	1.0	1
97	Simple Screening Method for Double-strand DNA Binders Using Hairpin DNA-modified Magnetic Beads. <i>Bulletin of the Korean Chemical Society</i> , 2011, 32, 247-250.	1.0	1
98	Inhibition of $\beta$ -Chymotrypsin with Thiol-Bearing Substrate Analogues in the Presence of Zinc Ion.. <i>ChemInform</i> , 2004, 35, no.	0.1	0
99	Front Cover Picture: Organosilane-Patterned Paper-based Colorimetric Sensors for High-Throughput Screening of Cross-Coupling Reactions with Aryl Bromides ( <i>Adv. Synth. Catal.</i> 20/2018). <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 3819-3819.	2.1	0
100	An analyte-triggered artificial peroxidase system based on dimanganese complex for a versatile enzyme assay. <i>Chemical Communications</i> , 2021, 57, 9450-9453.	2.2	0
101	A Method for Improving the Optical Properties of a Fluoregenic Di-metal Chelator as a Zn <sup>2+</sup> -ion Fluorescent Probe by Using a Bridging Substrate. <i>Bulletin of the Korean Chemical Society</i> , 2013, 34, 1586-1588.	1.0	0
102	Application of Peroxidase-Mimic Mn <sup>2+</sup> BPMP Boosted by ADP to Enzyme Cascade Assay for Glucose and Cholesterol. <i>Chemosensors</i> , 2022, 10, 89.	1.8	0
103	Investigation of a benzodiazaborine library to identify new pH-responsive fluorophores. <i>Organic and Biomolecular Chemistry</i> , 0, , .	1.5	0