Min Su Han

List of Publications by Year
in descending order

103 papers	6,991 citations	159358 30 h-index	56606 83 g-index
107 all docs	107 docs citations	107 times ranked	8769 citing authors

#	Article	IF	Citations
1	Metal-Free, Rapid, and Highly Chemoselective Reduction of Aromatic Nitro Compounds at Room Temperature. Journal of Organic Chemistry, 2022, 87, 910-919.	1.7	27
2	Aldehyde N,N-dimethylhydrazone-based fluorescent substrate for peroxidase-mediated assays. RSC Advances, 2022, 12, 8668-8673.	1.7	3
3	Application of Peroxidase-Mimic Mn2BPMP Boosted by ADP to Enzyme Cascade Assay for Glucose and Cholesterol. Chemosensors, 2022, 10, 89.	1.8	0
4	pH-guided fluorescent sensing probe for the discriminative detection of Clâ˜ and Brâ˜ in human serum. Analytica Chimica Acta, 2022, 1210, 339879.	2.6	9
5	An analyte-triggered artificial peroxidase system based on dimanganese complex for a versatile enzyme assay. Chemical Communications, 2021, 57, 9450-9453.	2.2	0
6	A simple and efficient in situ generated copper nanocatalyst for stereoselective semihydrogenation of alkynes. Chemical Communications, 2021, 57, 6891-6894.	2.2	14
7	Versatile small molecule kinase assay through real-time, ratiometric fluorescence changes based on a pyrene-DPA-Zn²⁺ complex. RSC Advances, 2021, 11, 10375-10380.	1.7	3
8	Colorimetric discrimination of nucleoside phosphates based on catalytic signal amplification strategy and its application to related enzyme assays. Analyst, The, 2021, 146, 463-470.	1.7	6
9	Photocatalytic carbocarboxylation of styrenes with CO₂for the synthesis of Î³-aminobutyric esters. Organic and Biomolecular Chemistry, 2021, 19, 6301-6312.	1.5	8
10	Ligand-free Suzukiâ€“Miyaura cross-coupling with low Pd content: rapid development by a fluorescence-based high-throughput screening method. Organic and Biomolecular Chemistry, 2021, 19, 1009-1016.	1.5	5
11	New strategy to design fluorescent substrates of carboxypeptidases using a combination of dansylated peptides and albumin. Dyes and Pigments, 2021, 196, 109804.	2.0	2
12	A long-term stable paper-based glucose sensor using a glucose oxidase-loaded, Mn₂BPMP-conjugated nanocarrier with a smartphone readout. Nanoscale, 2021, 13, 4467-4474.	2.8	18
13	A ratiometric fluorescence probe for the selective detection of H₂S in serum using a pyrene-DPAâ€“Cd²⁺ complex. RSC Advances, 2021, 11, 24410-24415.	1.7	6
14	Effective and prolonged targeting of a nanocarrier to the inflammation site by functionalization with ZnBPMP and chitosan. Materials Science and Engineering C, 2021, 131, 112521.	3.8	5
15	Enantioselective Alkynylation of Trifluoromethyl Ketones Catalyzed by Cationâ€Binding Salen Nickel Complexes. Angewandte Chemie - International Edition, 2020, 59, 775-779.	7.2	26
16	Enantioselective Alkynylation of Trifluoromethyl Ketones Catalyzed by Cationâ€Binding Salen Nickel Complexes. Angewandte Chemie, 2020, 132, 785-789.	1.6	1
17	A Fluorescence-Based High-Throughput Screening Method for Olefin Metathesis Using a Ratiometric Fluorescent Probe. Organic Letters, 2020, 22, 1703-1708.	2.4	7
18	Transition-Metal-Free Borylation of Aryl Bromide Using a Simple Diboron Source. Journal of Organic Chemistry, 2020, 85, 10966-10972.	1.7	8

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19	A Fluorescent Probe for Selective Facile Detection of H₂S in Serum Based on an Albumin-Binding Fluorophore and Effective Masking Reagent. ACS Omega, 2020, 5, 32507-32514.	1.6	11
20	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. Catalysts, 2020, 10, 542.	1.6	2
21	Pluronic-Based Nanocarrier Platform Encapsulating Two Enzymes for Cascade Reactions. ACS Applied Bio Materials, 2020, 3, 5126-5135.	2.3	10
22	Development of a fluorescent chemosensor for chloride ion detection in sweat using Ag+-benzimidazole complexes. Dyes and Pigments, 2020, 177, 108291.	2.0	28
23	A hydrazone-based turn-on fluorescent probe for peroxynitrite detection and live-cell imaging. Dyes and Pigments, 2019, 171, 107762.	2.0	23
24	Development of a Simple Assay Method for Adenosine Deaminase via Enzymatic Formation of an Inosine-Tb3+ Complex. Sensors, 2019, 19, 2728.	2.1	2
25	Multi-screening of Î²-lactam antibiotics for Î²-lactamase resistance by means of a paper-based analytical device with a 4-(2-pyridylazo)resorcinol (PAR)â€“Hg²⁺complex. Analytical Methods, 2019, 11, 1729-1734.	1.3	2
26	A fluorescent probe for butyrylcholinesterase activity in human serum based on a fluorophore with specific binding affinity for human serum albumin. Chemical Communications, 2019, 55, 14574-14577.	2.2	41
27	Development of Human Serum Albumin Selective Fluorescent Probe Using Thieno[3,2-b]pyridine-5(4H)-one Fluorophore Derivatives. Sensors, 2019, 19, 5298.	2.1	31
28	Co-functionalization with phosphate and carboxylate on polydiacetylene for colorimetric detection of calcium ions in serum. Analyst, The, 2019, 144, 7064-7070.	1.7	13
29	A simple turn-on fluorescent chemosensor for CO2 based on aggregation-induced emission: Application as a CO2 absorbent screening method. Dyes and Pigments, 2019, 162, 978-983.	2.0	13
30	An [Mn₂(bpmp)]³⁺ complex as an artificial peroxidase and its applications in colorimetric pyrophosphate sensing and cascade-type pyrophosphatase assay. Analyst, The, 2018, 143, 1780-1785.	1.7	14
31	Front Cover Picture: Organosilane-Patterned Paper-based Colorimetric Sensors for High-Throughput Screening of Cross-Coupling Reactions with Aryl Bromides (Adv. Synth. Catal. 20/2018). Advanced Synthesis and Catalysis, 2018, 360, 3819-3819.	2.1	0
32	A colorimetric chemosensor for heptanal with selectivity over formaldehyde and acetaldehyde through synergistic interaction of hydrophobic interactions and oxime formation. Analyst, The, 2018, 143, 4592-4599.	1.7	8
33	Organosilaneâ€Patterned Paperâ€based Colorimetric Sensors for Highâ€Throughput Screening of Crossâ€Coupling Reactions with Aryl Bromides. Advanced Synthesis and Catalysis, 2018, 360, 3916-3923.	2.1	6
34	Anticancer effect of luteolin is mediated by downregulation of TAM receptor tyrosine kinases, but not interleukin-8, in non-small cell lung cancer cells. Oncology Reports, 2017, 37, 1219-1226.	1.2	32
35	Diâ€“thioether amideâ€“Pd 2+ complex based-methionine fluorescent chemosensor with selectivity over cysteine and histidine. Dyes and Pigments, 2017, 144, 69-75.	2.0	7
36	Paperâ€Based Colorimetric Sensor System for Highâ€Throughput Screening of Câ^'H Borylation. Chemistry - A European Journal, 2017, 23, 6282-6285.	1.7	8

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37	A colorimetric sensor for hydrogen sulfide detection using direct inhibition of active site in G-quadruplex DNAzyme. Dyes and Pigments, 2017, 139, 187-192.	2.0	21
38	A colorimetric and fluorescent chemosensor for detection of Hg2+ using counterion exchange of cationic polydiacetylene. Tetrahedron Letters, 2017, 58, 4340-4343.	0.7	13
39	Colorimetric assay for Î²-lactamase activity using cocktail of penicillin and 4-(2-pyridylazo)resorcinol (PAR)â€“2Hg2+ complex. Dyes and Pigments, 2017, 137, 518-522.	2.0	5
40	Development of a highly sensitive colorimetric thymidine triphosphate chemosensor using gold nanoparticles and the p-xylyl-bis(Hg2+-cyclen) complex: improved selectivity by metal ion tuning. Tetrahedron Letters, 2016, 57, 4484-4487.	0.7	2
41	Hg2+-selective fluorogenic signaling probe based on the hydrolysis of hydrazone. Tetrahedron Letters, 2016, 57, 4360-4363.	0.7	7
42	A direct assay of butyrylcholinesterase activity using a fluorescent substrate. Organic and Biomolecular Chemistry, 2016, 14, 8815-8820.	1.5	22
43	High-Throughput Screening Protocol for the Coupling Reactions of Aryl Halides Using a Colorimetric Chemosensor for Halide Ions. Organic Letters, 2016, 18, 1720-1723.	2.4	24
44	Simple synthesis of high-quality CdS nanowires using Au nanoparticles as catalyst. Journal of Alloys and Compounds, 2016, 659, 38-43.	2.8	19
45	Intra-molecular hydrogen bonding stabilization based-fluorescent chemosensor for CO 2 : Application to screen relative activities of CO 2 absorbents. Dyes and Pigments, 2015, 123, 125-131.	2.0	10
46	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. Tetrahedron Letters, 2015, 56, 5030-5033.	0.7	11
47	Sensitive fluorescence chemosensor for detection of thymidine nucleotides using Hg2+-benzo[g]quinazoline-2,4-(1H,3H)-dione complex. Tetrahedron Letters, 2015, 56, 5847-5850.	0.7	2
48	Gold nanoparticle-based colorimetric chiral discrimination of histidine: application to determining the enantiomeric excess of histidine. Analytical Methods, 2014, 6, 73-76.	1.3	44
49	A fluorescence-based glycosyltransferase assay for high-throughput screening. Bioorganic and Medicinal Chemistry, 2014, 22, 2571-2575.	1.4	17
50	A Ligand Exchange-based Fluorogenic Assay for Cartap Using Cu²⁺-calcein Blue Complex. Bulletin of the Korean Chemical Society, 2014, 35, 3642-3644.	1.0	3
51	Thioether Amide Based-Fluorescent Chemosensors for Pd2+with High Selectivity over Pd0. Bulletin of the Korean Chemical Society, 2014, 35, 2189-2192.	1.0	4
52	Palladium-catalyzed hydrodehalogenation of aryl halides using paraformaldehyde as the hydride source: high-throughput screening by paper-based colorimetric iodide sensor. Tetrahedron Letters, 2013, 54, 5207-5210.	0.7	40
53	Highly sensitive gold nanoparticle-based colorimetric probe for phytate detection with high selectivity over various phosphate derivatives. Tetrahedron Letters, 2013, 54, 5284-5287.	0.7	12
54	Palladium-catalyzed Câ€“S bond formation by using N-amido imidazolium salts as ligands. Tetrahedron Letters, 2013, 54, 6712-6715.	0.7	26

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55	Metal ion-prompted pyreneâ€“excimer formation via an anion-mediated process and its application for a ratiometric Zn2+ chemosensor with high selectivity over Cd2+. Tetrahedron Letters, 2013, 54, 1654-1657.	0.7	17
56	A highly sensitive gold nanoparticle-based colorimetric probe for pyrophosphate using a competition assay approach. Chemical Communications, 2013, 49, 152-154.	2.2	56
57	A Method for Improving the Optical Properties of a Fluoregenic Di-metal Chelator as a Zn2+Ion Fluorescent Probe by Using a Bridging Substrate. Bulletin of the Korean Chemical Society, 2013, 34, 1586-1588.	1.0	0
58	A bi-ligand co-functionalized gold nanoparticles-based calcium ion probe and its application to the detection of calcium ions in serum. Chemical Communications, 2012, 48, 5566.	2.2	34
59	A simple, fast, and easy assay for transition metal-catalyzed coupling reactions using a paper-based colorimetric iodide sensor. Chemical Communications, 2012, 48, 8751.	2.2	24
60	Enhanced protein-mediated binding between oligonucleotideâ€“gold nanoparticle composites and cell surfaces: co-transport of proteins and composites. Journal of Materials Chemistry, 2012, 22, 25036.	6.7	12
61	Quencher-free Oligonucleotide-based Fluorescent Probe for Pb2+Ions. Bulletin of the Korean Chemical Society, 2012, 33, 316-318.	1.0	2
62	A Gold Nanoparticles-Based Colorimetric Assay for DNA-Binding Molecules Using Non-Cross-Linking Aggregation. Bulletin of the Korean Chemical Society, 2012, 33, 1341-1344.	1.0	3
63	A colorimetric selective sensing probe for calcium ions with tunable dynamic ranges using cytidine triphosphate stabilized gold nanoparticles. Chemical Communications, 2011, 47, 10299.	2.2	36
64	Gold nanoparticle-assisted delivery of small, highly structured RNA into the nuclei of human cells. Biochemical and Biophysical Research Communications, 2011, 416, 178-183.	1.0	30
65	Effective delivery of anti-miRNA DNA oligonucleotides by functionalized gold nanoparticles. Journal of Biotechnology, 2011, 155, 287-292.	1.9	61
66	Inhibition of xenograft tumor growth in mice by gold nanoparticle-assisted delivery of short hairpin RNAs against Mcl-1L. Journal of Biotechnology, 2011, 156, 89-94.	1.9	19
67	A Colorimetric Highâ€Throughput Screening Method for Palladiumâ€Catalyzed Coupling Reactions of Aryl Iodides Using a Gold Nanoparticleâ€Based Iodideâ€Selective Probe. Angewandte Chemie - International Edition, 2011, 50, 4386-4389.	7.2	46
68	Gold nanoparticle-based colorimetric detection of kanamycin using a DNA aptamer. Analytical Biochemistry, 2011, 415, 175-181.	1.1	369
69	Modulation of biological processes in the nucleus by delivery of DNA oligonucleotides conjugated with gold nanoparticles. Biomaterials, 2011, 32, 2593-2604.	5.7	34
70	Adenosine Triphosphate (ATP)-Stabilized Gold Nanoparticle Based-colorimetric Acetylcholinesterase Assay Method with High Signal/Noise Ratio in End-point Analysis. Bulletin of the Korean Chemical Society, 2011, 32, 329-331.	1.0	2
71	Simple Screening Method for Double-strand DNA Binders Using Hairpin DNA-modified Magnetic Beads. Bulletin of the Korean Chemical Society, 2011, 32, 247-250.	1.0	1
72	Selective Colorimetric Sensor for Hg²⁺ Ions Using a Mixture of Thiourea Derivatives and Gold Nanoparticles Stabilized with Adenosine Triphosphate. Chemistry - an Asian Journal, 2010, 5, 2463-2466.	1.7	22

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73	Real-time colorimetric screening of endopeptidase inhibitors using adenosine triphosphate (ATP)-stabilized gold nanoparticles. Tetrahedron Letters, 2010, 51, 2228-2231.	0.7	8
74	Fluorescein derivative-based, selective and sensitive chemosensor for NADH. Tetrahedron Letters, 2010, 51, 3775-3778.	0.7	17
75	A gold nanoparticle-based colorimetric sensing ensemble for the colorimetric detection of cyanide ions in aqueous solution. Tetrahedron Letters, 2010, 51, 4712-4716.	0.7	78
76	A functionalized gold nanoparticles-assisted universal carrier for antisense DNA. Chemical Communications, 2010, 46, 4151.	2.2	48
77	Delivery of shRNA using gold nanoparticleâ€“DNA oligonucleotide conjugates as a universal carrier. Biochemical and Biophysical Research Communications, 2010, 398, 542-546.	1.0	42
78	A simple method for improving the optical properties of a dimetallic coordination fluorescent chemosensor for adenosine triphosphate. Tetrahedron Letters, 2009, 50, 6241-6243.	0.7	33
79	Colorimetric Nitrite and Nitrate Detection with Gold Nanoparticle Probes and Kinetic End Points. Journal of the American Chemical Society, 2009, 131, 6362-6363.	6.6	325
80	Coumarin-derivative-based offâ€“on catalytic chemodosimeter for Cu2+ ions. Chemical Communications, 2009, , 4838.	2.2	169
81	A Simplified Assay Method for Determining the Binding Affinities of DNA Binding Molecules to Duplex DNA. Bulletin of the Korean Chemical Society, 2009, 30, 2873-2874.	1.0	1
82	A DNAâ^'Gold Nanoparticle-Based Colorimetric Competition Assay for the Detection of Cysteine. Nano Letters, 2008, 8, 529-533.	4.5	459
83	Detection of mismatched DNAs via the binding affinity of MutS using a gold nanoparticle-based competitive colorimetric method. Chemical Communications, 2008, , 4573.	2.2	42
84	Metal-containing Trifurcate Chemosensing Ensemble for Phytate. Supramolecular Chemistry, 2007, 19, 315-320.	1.5	19
85	Microarray Detection of Duplex and Triplex DNA Binders with DNA-Modified Gold Nanoparticles. Analytical Chemistry, 2007, 79, 6037-6041.	3.2	70
86	Screening the Sequence Selectivity of DNA-Binding Molecules Using a Gold Nanoparticle-Based Colorimetric Approach. Analytical Chemistry, 2007, 79, 7201-7205.	3.2	68
87	A Gold-Nanoparticle-Based Real-Time Colorimetric Screening Method for Endonuclease Activity and Inhibition. Angewandte Chemie - International Edition, 2007, 46, 3468-3470.	7.2	257
88	Colorimetric Detection of Mercuric Ion (Hg2+) in Aqueous Media using DNA-Functionalized Gold Nanoparticles. Angewandte Chemie - International Edition, 2007, 46, 4093-4096.	7.2	1,203
89	A Gold Nanoparticle Based Approach for Screening Triplex DNA Binders. Journal of the American Chemical Society, 2006, 128, 4954-4955.	6.6	153
90	Oligonucleotide-Modified Gold Nanoparticles for Intracellular Gene Regulation. Science, 2006, 312, 1027-1030.	6.0	1,838

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91	Colorimetric assay for a fast parallel screening of NOxNOx storage. Journal of Catalysis, 2006, 241, 470-474.	3.1	6
92	Colorimetric Screening of DNA-Binding Molecules with Gold Nanoparticle Probes. Angewandte Chemie - International Edition, 2006, 45, 1807-1810.	7.2	216
93	Inhibition of Î±-chymotrypsin with thiol-bearing substrate analogues in the presence of zinc ion. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 701-705.	1.0	7
94	Rationally designed chromogenic chemosensor that detects cysteine in aqueous solution with remarkable selectivity. Tetrahedron, 2004, 60, 11251-11257.	1.0	65
95	Inhibition of Î±-Chymotrypsin with Thiol-Bearing Substrate Analogues in the Presence of Zinc Ion.. ChemInform, 2004, 35, no.	0.1	0
96	Fluorometric Assay Protocol for Protease-Catalyzed Transesterification Reactions in Organic Solvents. Journal of Organic Chemistry, 2004, 69, 2853-2855.	1.7	9
97	Molecular probe for selective detection of thiols in water of neutral pH. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 2543-2546.	1.0	18
98	Visual detection of AMP and real-time monitoring of cyclic nucleotide phosphodiesterase (PDE) activity in neutral aqueous solution. Chemosensor-coupled assay of PDE and PDE inhibitors. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 1079-1082.	1.0	31
99	Readily Available Fluorescence Probes for Zinc Ion in Aqueous Solution of Neutral pH. Supramolecular Chemistry, 2003, 15, 59-64.	1.5	14
100	Naked-Eye Detection of Phosphate Ions in Water at Physiological pH: A Remarkably Selective and Easy-To-Assemble Colorimetric Phosphate-Sensing Probe. Angewandte Chemie - International Edition, 2002, 41, 3809-3811.	7.2	261
101	Effect of zinc ion on the inhibition of carboxypeptidase A by imidazole-bearing substrate analogues. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 1425-1427.	1.0	28
102	A Novel Strategy for Designing Irreversible Inhibitors of Metalloproteases:â€‰ Acetals as Latent Electrophiles That Interact with Catalytic Nucleophile at the Active Site. Organic Letters, 2000, 2, 3149-3152.	2.4	6
103	Investigation of a benzodiazaborine library to identify new pH-responsive fluorophores. Organic and Biomolecular Chemistry, 0, , .	1.5	0