Hao-Hua Deng

List of Publications by Year
in descending order

103 papers	4,788 citations	100601 38 h-index	120465 65 g-index
104 all docs	104 docs citations	104 times ranked	5183 citing authors

#	Article	IF	Citations
1	Cucurbit[n]uril Supramolecular Assemblies-Regulated Charge Transfer for Luminescence Switching of Gold Nanoclusters. Journal of Physical Chemistry Letters, 2022, 13, 419-426.	2.1	12
2	Ultrasensitive Glutathione-Mediated Facile Split-Type Electrochemiluminescence Nanoswitch Sensing Platform. Analytical Chemistry, 2022, 94, 2341-2347.	3.2	16
3	Citric acid-derived carbon dots as excellent cysteine oxidase mimics for cysteine sensing. Sensors and Actuators B: Chemical, 2022, 359, 131563.	4.0	21
4	Immunofluorescent-aggregation assay based on anti-Salmonella typhimurium IgG-AuNCs, for rapid detection of Salmonella typhimurium. Mikrochimica Acta, 2022, 189, 160.	2.5	7
5	6-Aza-2-thio-thymineâ€“gold nanoclusters: an excellent candidate in the photoelectrochemical field. Chemical Communications, 2022, 58, 6219-6222.	2.2	4
6	Antenna effect of pyridoxal phosphate on the fluorescence of mitoxantrone-silicon nanoparticles and its application in alkaline phosphatase assay. Analytical and Bioanalytical Chemistry, 2022, 414, 4877-4884.	1.9	1
7	Gold Nanocluster-Based Fluorometric Banoxantrone Assay Enabled by Photoinduced Electron Transfer. Nanomaterials, 2022, 12, 1861.	1.9	0
8	Bis-Schiff base linkage-triggered highly bright luminescence of gold nanoclusters in aqueous solution at the single-cluster level. Nature Communications, 2022, 13, .	5.8	35
9	Deep Learning-Based Sensor Array: 3D Fluorescence Spectra of Gold Nanoclusters for Qualitative and Quantitative Analysis of Vitamin B₆ Derivatives. Analytical Chemistry, 2022, 94, 9287-9296.	3.2	13
10	Fructose oxidase-like activity of CuO nanoparticles supported by phosphate for a tandem catalysis-based fructose sensor. Analytica Chimica Acta, 2022, 1220, 340064.	2.6	9
11	De novo design of a photoluminescent sensor for baicalin detection via regulating molecule-like charge transfer of gold nanocluster. Sensors and Actuators B: Chemical, 2022, 368, 132197.	4.0	3
12	Rutin as a coenzyme of Fe-doped silicon nanozyme with enhanced peroxidase-like activity for a colorimetric Î²-glucuronidase sensor. Microchemical Journal, 2022, 181, 107771.	2.3	1
13	Single gold nanocluster probe-based fluorescent sensor array for heavy metal ion discrimination. Journal of Hazardous Materials, 2021, 405, 124259.	6.5	43
14	Engineering of oxygen vacancies regulated core-shell N-doped carbon@NiFe2O4 nanospheres: A superior bifunctional electrocatalyst for boosting the kinetics of oxygen and hydrogen evaluation reactions. Chemical Engineering Journal, 2021, 405, 126732.	6.6	46
15	Size-focusing results in highly photoluminescent sulfur quantum dots with a stable emission wavelength. Nanoscale, 2021, 13, 2519-2526.	2.8	35
16	Regulating Valence States of Gold Nanocluster as a New Strategy for the Ultrasensitive Electrochemiluminescence Detection of Kanamycin. Analytical Chemistry, 2021, 93, 4635-4640.	3.2	45
17	Detection of tetanus toxoid with fluorescent tetanus human IgG-AuNCâ€“based immunochromatography test strip. Biosensors and Bioelectronics, 2021, 177, 112977.	5.3	14
18	Split-type electrochemiluminescent gene assay platform based on gold nanocluster probe for human papillomavirus diagnosis. Biosensors and Bioelectronics, 2021, 178, 113044.	5.3	19

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19	Rational construction of N,S-doped carbon wrapped MnFe2O4 nanospheres with copious oxygen deficiency as extremely efficient and robust electrocatalyst for urea electrocatalysis. Journal of Power Sources, 2021, 494, 229757.	4.0	14
20	Highly Conductive Ligandâ€Free Cs₂PtBr₆ Perovskite Nanocrystals with a Narrow Bandgap and Efficient Photoelectrochemical Performance. Small, 2021, 17, e2102149.	5.2	11
21	Electrochemiluminescence Immunoassay Platform with Immunoglobulin G-Encapsulated Gold Nanoclusters as a â€œTwo-In-Oneâ€•Probe. Analytical Chemistry, 2021, 93, 13022-13028.	3.2	18
22	Protein-Assisted Osmium Nanoclusters with Intrinsic Peroxidase-like Activity and Extrinsic Antifouling Behavior. ACS Applied Materials & Interfaces, 2021, 13, 44541-44548.	4.0	13
23	Bifunctional cupric oxide nanoparticle-catalyzed self-cascade oxidation reactions of ascorbic acid for bacterial killing and wound disinfection. Composites Part B: Engineering, 2021, 222, 109074.	5.9	21
24	Acetaminophen sensor based on the oxidase-like activity and interference self-elimination ability of chondroitin sulfate-modified platinum nanozyme. Sensors and Actuators B: Chemical, 2021, 347, 130627.	4.0	25
25	Rare-Earth Eu³⁺/Gold Nanocluster Ensemble-Based Fluorescent Photoinduced Electron Transfer Sensor for Biomarker Dipicolinic Acid Detection. Langmuir, 2021, 37, 949-956.	1.6	21
26	Bell-Shaped Electron Transfer Kinetics in Gold Nanoclusters. Journal of Physical Chemistry Letters, 2021, 12, 876-883.	2.1	14
27	A peroxidase-like activity-based colorimetric sensor array of noble metal nanozymes to discriminate heavy metal ions. Analyst, The, 2021, 147, 101-108.	1.7	22
28	Dual Enhancement of Gold Nanocluster Electrochemiluminescence: Electrocatalytic Excitation and Aggregationâ€Induced Emission. Angewandte Chemie, 2020, 132, 10068-10071.	1.6	8
29	Dual Enhancement of Gold Nanocluster Electrochemiluminescence: Electrocatalytic Excitation and Aggregationâ€Induced Emission. Angewandte Chemie - International Edition, 2020, 59, 9982-9985.	7.2	143
30	Ascorbate Oxidase Mimetic Activity of Copper(II) Oxide Nanoparticles. ChemBioChem, 2020, 21, 978-984.	1.3	32
31	Heparin-platinum nanozymes with enhanced oxidase-like activity for the colorimetric sensing of isoniazid. Talanta, 2020, 211, 120707.	2.9	40
32	Rational Design of High-Performance Donorâ€“Linkerâ€“Acceptor Hybrids Using a Schiff Base for Enabling Photoinduced Electron Transfer. Analytical Chemistry, 2020, 92, 2019-2026.	3.2	54
33	A Heparinase Sensor Based on a Ternary System of Hg²⁺â€“Heparinâ€“Osmium Nanoparticles. Analytical Chemistry, 2020, 92, 1635-1642.	3.2	37
34	Highly sensitive colorimetric sensor for detection of iodine ions using carboxylated chitosanâ€“coated palladium nanozyme. Analytical and Bioanalytical Chemistry, 2020, 412, 499-506.	1.9	38
35	Fluorescent gold nanocluster-based sensor for detection of alkaline phosphatase in human osteosarcoma cells. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 229, 117875.	2.0	20
36	Gold nanoclusters/graphene quantum dots complex-based dual-emitting ratiometric fluorescence probe for the determination of glucose. Journal of Pharmaceutical and Biomedical Analysis, 2020, 189, 113480.	1.4	18

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37	Mechanistic Insight into a Novel Ultrasensitive Nicotine Assay Base on High-Efficiency Quenching of Gold Nanocluster Cathodic Electrochemiluminescence. Analytical Chemistry, 2020, 92, 11438-11443.	3.2	12
38	Osmium nanozyme as peroxidase mimic with high performance and negligible interference of O₂. Journal of Materials Chemistry A, 2020, 8, 25226-25234.	5.2	44
39	Bimetallic AgAu decorated MWCNTs enable robust nonenzyme electrochemical sensors for in-situ quantification of dopamine and H2O2 biomarkers expelled from PC-12 cells. Journal of Electroanalytical Chemistry, 2020, 878, 114554.	1.9	15
40	Sodium Alginate Modified Platinum Nanozymes With Highly Efficient and Robust Oxidase-Like Activity for Antioxidant Capacity and Analysis of Proanthocyanidins. Frontiers in Chemistry, 2020, 8, 654.	1.8	10
41	A facile route for constructing Cuâ€“Nâ€“C peroxidase mimics. Journal of Materials Chemistry B, 2020, 8, 8599-8606.	2.9	31
42	Oxygen vacancy confined nickel cobaltite nanostructures as an excellent interface for the enzyme-free electrochemical sensing of extracellular H₂O₂ secreted from live cells. New Journal of Chemistry, 2020, 44, 14050-14059.	1.4	21
43	Decisive role of pH in synthesis of high purity fluorescent BSA-Au20 nanoclusters. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 239, 118520.	2.0	4
44	Defects engineered 2D ultrathin cobalt hydroxide nanosheets as highly efficient electrocatalyst for non-enzymatic electrochemical sensing of glucose and l-cysteine. Sensors and Actuators B: Chemical, 2020, 320, 128374.	4.0	48
45	Protein-Supported RuO₂ Nanoparticles with Improved Catalytic Activity, In Vitro Salt Resistance, and Biocompatibility: Colorimetric and Electrochemical Biosensing of Cellular H₂O₂. ACS Applied Materials & Interfaces, 2020, 12, 14876-14883.	4.0	37
46	Schiff base and Lewis acid-base interaction-regulated aggregation/dispersion of gold nanoparticles for colorimetric recognition of rare-earth Sc3+ ions. Sensors and Actuators B: Chemical, 2020, 311, 127925.	4.0	14
47	Solid-state thiolate-stabilized copper nanoclusters with ultrahigh photoluminescence quantum yield for white light-emitting devices. Nanoscale, 2020, 12, 15791-15799.	2.8	28
48	One-pot cascade catalysis at neutral pH driven by CuO tandem nanozyme for ascorbic acid and alkaline phosphatase detection. Sensors and Actuators B: Chemical, 2020, 321, 128511.	4.0	41
49	Sensitive and selective nitrite assay based on fluorescent gold nanoclusters and Fe2+/Fe3+ redox reaction. Food Chemistry, 2020, 317, 126456.	4.2	20
50	6-Aza-2-Thio-Thymine Stabilized Gold Nanoclusters as Photoluminescent Probe for Protein Detection. Nanomaterials, 2020, 10, 281.	1.9	11
51	Colorimetric acid phosphatase sensor based on MoO3 nanozyme. Analytica Chimica Acta, 2020, 1105, 162-168.	2.6	66
52	Cathodic electrochemiluminescence performance of all-inorganic perovskite CsPbBr3 nanocrystals in an aqueous medium. Electrochemistry Communications, 2020, 111, 106667.	2.3	15
53	Platinum group element-based nanozymes for biomedical applications: An overview. Biomedical Materials (Bristol), 2020, , .	1.7	7
54	Immunoglobulin G-Encapsulated Gold Nanoclusters as Fluorescent Tags for Dot-Blot Immunoassays. ACS Applied Materials & Interfaces, 2019, 11, 31729-31734.	4.0	36

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55	Preâ€oxidation of Gold Nanoclusters Results in a 66â€‰% Anodic Electrochemiluminescence Yield and Drives Mechanistic Insights. Angewandte Chemie, 2019, 131, 11817-11820.	1.6	19
56	Improved enzymatic assay for hydrogen peroxide and glucose by exploiting the enzyme-mimicking properties of BSA-coated platinum nanoparticles. Mikrochimica Acta, 2019, 186, 778.	2.5	29
57	Regulation of metal ion selectivity of fluorescent gold nanoclusters by metallophilic interactions. Analytica Chimica Acta, 2019, 1088, 116-122.	2.6	21
58	Dynamic split G-quadruplex programmed reversible nanodevice. Chemical Communications, 2019, 55, 389-392.	2.2	17
59	Versatile High-Performance Electrochemiluminescence ELISA Platform Based on a Gold Nanocluster Probe. ACS Applied Materials & Interfaces, 2019, 11, 24812-24819.	4.0	64
60	Preâ€oxidation of Gold Nanoclusters Results in a 66â€‰% Anodic Electrochemiluminescence Yield and Drives Mechanistic Insights. Angewandte Chemie - International Edition, 2019, 58, 11691-11694.	7.2	128
61	Target-triggered inhibiting oxidase-mimicking activity of platinum nanoparticles for ultrasensitive colorimetric detection of silver ion. Chinese Chemical Letters, 2019, 30, 1659-1662.	4.8	33
62	Gold nanocluster-based fluorescence turn-off probe for sensing of doxorubicin by photoinduced electron transfer. Sensors and Actuators B: Chemical, 2019, 296, 126656.	4.0	62
63	Colorimetric tyrosinase assay based on catechol inhibition of the oxidase-mimicking activity of chitosan-stabilized platinum nanoparticles. Mikrochimica Acta, 2019, 186, 301.	2.5	23
64	Redox Recycling-Triggered Peroxidase-Like Activity Enhancement of Bare Gold Nanoparticles for Ultrasensitive Colorimetric Detection of Rare-Earth Ce³⁺ Ion. Analytical Chemistry, 2019, 91, 4039-4046.	3.2	80
65	Electrochemiluminescent immunoassay for the lung cancer biomarker CYFRA21-1 using MoOx quantum dots. Mikrochimica Acta, 2019, 186, 855.	2.5	17
66	Self-Referenced Ratiometric Detection of Sulfatase Activity with Dual-Emissive Urease-Encapsulated Gold Nanoclusters. ACS Sensors, 2019, 4, 344-352.	4.0	45
67	An ammonia-based etchant for attaining copper nanoclusters with green fluorescence emission. Nanoscale, 2018, 10, 6467-6473.	2.8	62
68	Gold Nanoparticle-Based Photoluminescent Nanoswitch Controlled by Hostâ€“Guest Recognition and Enzymatic Hydrolysis for Arginase Activity Assay. ACS Applied Materials & Interfaces, 2018, 10, 5358-5364.	4.0	29
69	Facile electrochemiluminescence sensing platform based on high-quantum-yield gold nanocluster probe for ultrasensitive glutathione detection. Biosensors and Bioelectronics, 2018, 105, 71-76.	5.3	74
70	A DNA electrochemical biosensor based on homogeneous hybridization for the determination of Cryptococcus neoformans. Journal of Electroanalytical Chemistry, 2018, 827, 27-33.	1.9	8
71	Fabrication of ultra-small monolayer graphene quantum dots by pyrolysis of trisodium citrate for fluorescent cell imaging. International Journal of Nanomedicine, 2018, Volume 13, 4807-4815.	3.3	73
72	Preparation of strongly fluorescent water-soluble dithiothreitol modified gold nanoclusters coated with carboxychitosan, and their application to fluorometric determination of the immunosuppressive 6-mercaptopurine. Mikrochimica Acta, 2018, 185, 400.	2.5	15

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73	Fabrication of Water-Soluble, Green-Emitting Gold Nanoclusters with a 65% Photoluminescence Quantum Yield via Hostâ€“Guest Recognition. Chemistry of Materials, 2017, 29, 1362-1369.	3.2	209
74	Valence States Effect on Electrogenerated Chemiluminescence of Gold Nanocluster. ACS Applied Materials & Interfaces, 2017, 9, 14929-14934.	4.0	60
75	Self-cascade reaction catalyzed by CuO nanoparticle-based dual-functional enzyme mimics. Biosensors and Bioelectronics, 2017, 97, 21-25.	5.3	91
76	Chitosan-stabilized platinum nanoparticles as effective oxidase mimics for colorimetric detection of acid phosphatase. Nanoscale, 2017, 9, 10292-10300.	2.8	187
77	Bimetallic Bi/Pt peroxidase mimic and its bioanalytical applications. Analytica Chimica Acta, 2017, 971, 88-96.	2.6	28
78	Electrochemiluminescence sensor based on methionine-modified gold nanoclusters for highly sensitive determination of dopamine released by cells. Mikrochimica Acta, 2017, 184, 735-743.	2.5	45
79	Alkaline peroxidase activity of cupric oxide nanoparticles and its modulation by ammonia. Analyst, The, 2017, 142, 3986-3992.	1.7	21
80	Colorimetric glutathione assay based on the peroxidase-like activity of a nanocomposite consisting of platinum nanoparticles and graphene oxide. Mikrochimica Acta, 2017, 184, 3945-3951.	2.5	32
81	Peroxidase-like activity of nanocrystalline cobalt selenide and its application for uric acid detection. International Journal of Nanomedicine, 2017, Volume 12, 3295-3302.	3.3	20
82	Label-free, resettable, and multi-readout logic gates based on chemically induced fluorescence switching of gold nanoclusters. Journal of Materials Chemistry C, 2016, 4, 7141-7147.	2.7	14
83	Water-soluble gold nanoclusters prepared by protein-ligand interaction as fluorescent probe for real-time assay of pyrophosphatase activity. Biosensors and Bioelectronics, 2016, 83, 1-8.	5.3	67
84	Partially reduced graphene oxide as highly efficient DNA nanoprobe. Biosensors and Bioelectronics, 2016, 80, 140-145.	5.3	28
85	Colorimetric detection of urea, urease, and urease inhibitor based on the peroxidase-like activity of gold nanoparticles. Analytica Chimica Acta, 2016, 915, 74-80.	2.6	113
86	Platinum nanoparticles/graphene-oxide hybrid with excellent peroxidase-like activity and its application for cysteine detection. Analyst, The, 2015, 140, 5251-5256.	1.7	95
87	Determination of tannic acid based on luminol chemiluminescence catalyzed by cupric oxide nanoparticles. Analytical Methods, 2015, 7, 1924-1928.	1.3	36
88	A colorimetric Boolean INHIBIT logic gate for the determination of sulfide based on citrate-capped gold nanoparticles. RSC Advances, 2015, 5, 58574-58579.	1.7	14
89	pH-Sensitive gold nanoclusters: preparation and analytical applications for urea, urease, and urease inhibitor detection. Chemical Communications, 2015, 51, 7847-7850.	2.2	88
90	Fenton reaction-mediated fluorescence quenching of N-acetyl-<scp>l</scp>-cysteine-protected gold nanoclusters: analytical applications of hydrogen peroxide, glucose, and catalase detection. Analyst, The, 2015, 140, 7650-7656.	1.7	43

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91	Methionine-directed fabrication of gold nanoclusters with yellow fluorescent emission for Cu2+ sensing. Biosensors and Bioelectronics, 2015, 65, 397-403.	5.3	116
92	Thermally treated bare gold nanoparticles for colorimetric sensing of copper ions. Mikrochimica Acta, 2014, 181, 911-916.	2.5	30
93	Colorimetric sensor based on dual-functional gold nanoparticles: Analyte-recognition and peroxidase-like activity. Food Chemistry, 2014, 147, 257-261.	4.2	49
94	Colorimetric sensor for thiocyanate based on anti-aggregation of citrate-capped gold nanoparticles. Sensors and Actuators B: Chemical, 2014, 191, 479-484.	4.0	60
95	Choline and acetylcholine detection based on peroxidase-like activity and protein antifouling property of platinum nanoparticles in bovine serum albumin scaffold. Biosensors and Bioelectronics, 2014, 62, 331-336.	5.3	98
96	Colorimetric detection of sulfide based on target-induced shielding against the peroxidase-like activity of gold nanoparticles. Analytica Chimica Acta, 2014, 852, 218-222.	2.6	86
97	Citrate-Capped Platinum Nanoparticle as a Smart Probe for Ultrasensitive Mercury Sensing. Analytical Chemistry, 2014, 86, 10955-10960.	3.2	248
98	In Situ Growth of Porous Platinum Nanoparticles on Graphene Oxide for Colorimetric Detection of Cancer Cells. Analytical Chemistry, 2014, 86, 2711-2718.	3.2	233
99	Synthesis and Peroxidaseâ€Like Activity of Saltâ€Resistant Platinum Nanoparticles by Using Bovine Serum Albumin as the Scaffold. ChemCatChem, 2014, 6, 1543-1548.	1.8	53
100	Fluorescent hydrogen peroxide sensor based on cupric oxide nanoparticles and its application for glucose and l-lactate detection. Biosensors and Bioelectronics, 2014, 61, 374-378.	5.3	158
101	An IMPLICATION logic gate based on citrate-capped gold nanoparticles with thiocyanate and iodide as inputs. Analyst, The, 2013, 138, 6677.	1.7	22
102	Bare gold nanoparticles as facile and sensitive colorimetric probe for melamine detection. Analyst, The, 2012, 137, 5382.	1.7	59
103	Comparison of the Peroxidaseâ€Like Activity of Unmodified, Aminoâ€Modified, and Citrateâ€Capped Gold Nanoparticles. ChemPhysChem, 2012, 13, 1199-1204.	1.0	253