

Wei Tao Huang

List of Publications by Year in descending order

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37
papers

1,070
citations

430442

18
h-index

414034

32
g-index

38
all docs

38
docs citations

38
times ranked

1513
citing authors

#	ARTICLE	IF	CITATIONS
1	A label-free DNA reduced graphene oxide-based fluorescent sensor for highly sensitive and selective detection of hemin. <i>Chemical Communications</i> , 2011, 47, 4676.	2.2	117
2	Design of a dual-output fluorescent DNA logic gate and detection of silver ions and cysteine based on graphene oxide. <i>Chemical Communications</i> , 2012, 48, 82-84.	2.2	116
3	A reversible fluorescence nanoswitch based on bifunctional reduced graphene oxide: use for detection of Hg ²⁺ and molecular logic gate operation. <i>Chemical Communications</i> , 2011, 47, 7800.	2.2	73
4	<i>E. coli</i> Nissle 1917-Derived Minicells for Targeted Delivery of Chemotherapeutic Drug to Hypoxic Regions for Cancer Therapy. <i>Theranostics</i> , 2018, 8, 1690-1705.	4.6	71
5	CTAB-capped Mn-doped ZnS quantum dots and label-free aptamer for room-temperature phosphorescence detection of mercury ions. <i>Analyst</i> , 2012, 137, 4651.	1.7	59
6	Highly sensitive, selective, and rapid fluorescence Hg ²⁺ sensor based on DNA duplexes of poly(dT) and graphene oxide. <i>Analyst</i> , 2012, 137, 3300.	1.7	57
7	Label-free colorimetric detection of Hg ²⁺ based on Hg ²⁺ -triggered exonuclease III-assisted target recycling and DNAzyme amplification. <i>Biosensors and Bioelectronics</i> , 2015, 68, 266-271.	5.3	50
8	A simple and facile strategy based on Fenton-induced DNA cleavage for fluorescent turn-on detection of hydroxyl radicals and Fe ²⁺ . <i>Journal of Materials Chemistry</i> , 2012, 22, 1477-1481.	6.7	45
9	Boolean Logic Tree of Label-Free Dual-Signal Electrochemical Aptasensor System for Biosensing, Three-State Logic Computation, and Keypad Lock Security Operation. <i>Analytical Chemistry</i> , 2017, 89, 9734-9741.	3.2	40
10	A triple-channel optical signal probe for Hg ²⁺ detection based on acridine orange and aptamer-wrapped gold nanoparticles. <i>Journal of Materials Chemistry</i> , 2012, 22, 11479.	6.7	38
11	<i>Escherichia coli</i> Nissle 1917 engineered to express Tum-5 can restrain murine melanoma growth. <i>Oncotarget</i> , 2017, 8, 85772-85782.	0.8	35
12	Silver(I) ions and cysteine detection based on photoinduced electron transfer mediated by cytosine-Ag ⁺ -cytosine base pairs. <i>Analyst</i> , 2011, 136, 4130.	1.7	34
13	Ethynyl and π -stacked thymine-Hg ²⁺ -thymine base pairs enhanced fluorescence quenching via photoinduced electron transfer and simple and sensitive mercury ion sensing. <i>Biosensors and Bioelectronics</i> , 2015, 64, 597-604.	5.3	32
14	Boolean Logic Tree of Graphene-Based Chemical System for Molecular Computation and Intelligent Molecular Search Query. <i>Analytical Chemistry</i> , 2014, 86, 4494-4500.	3.2	31
15	Graphene-Based Steganographically Aptasensing System for Information Computing, Encryption and Hiding, Fluorescence Sensing and in Vivo Imaging of Fish Pathogens. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 8904-8914.	4.0	26
16	In Vivo Imaging of Hypoxia Associated with Inflammatory Bowel Disease by a Cytoplasmic Protein-Powered Fluorescence Cascade Amplifier. <i>Analytical Chemistry</i> , 2020, 92, 5787-5794.	3.2	26
17	Interaction of a novel <i>Bacillus velezensis</i> (BvL03) against <i>Aeromonas hydrophila</i> in vitro and in vivo in grass carp. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 8987-8999.	1.7	23
18	A comprehensive genomic and growth proteomic analysis of antitumor lipopeptide bacillomycin Lb biosynthesis in <i>Bacillus amyloliquefaciens</i> X030. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 7647-7662.	1.7	20

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19	Matter, energy and information network of a graphene-peptide-based fluorescent sensing system for molecular logic computing, detection and imaging of cancer stem cell marker CD133 in cells and tumor tissues. <i>Analyst, The</i> , 2019, 144, 1881-1891.	1.7	19
20	Fuzzy logic sensing of G-quadruplex DNA and its cleavage reagents based on reduced graphene oxide. <i>Biosensors and Bioelectronics</i> , 2014, 57, 117-124.	5.3	17
21	Highly Tunable and Scalable Fabrication of 3D Flexible Graphene Micropatterns for Directing Cell Alignment. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 17704-17713.	4.0	17
22	Peptide-Based Sensing, Logic Computing, and Information Security on the Antimonene Platform. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 8311-8321.	4.0	17
23	Microwave-Assisted Synthesis of Silver Nanoparticles for Multimode Colorimetric Sensing of Multiplex Metal Ions and Molecular Informatization Applications. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 9480-9491.	4.0	14
24	Molecular neuron: From sensing to logic computation, information encoding, and encryption. <i>Sensors and Actuators B: Chemical</i> , 2017, 239, 704-710.	4.0	13
25	Directly reusing waste fish scales for facile, large-scale and green extraction of fluorescent carbon nanoparticles and their application in sensing of ferric ions. <i>Sustainable Chemistry and Pharmacy</i> , 2020, 17, 100305.	1.6	12
26	DNA nanosensing systems for tunable detection of metal ions and molecular crypto-steganography. <i>Biosensors and Bioelectronics</i> , 2022, 195, 113645.	5.3	11
27	Microwave-Assisted Synthesis of Chromium Oxide Nanoparticles for Fluorescence Biosensing of Mercury Ions and Molecular Logic Computing. <i>ACS Applied Nano Materials</i> , 2021, 4, 7086-7096.	2.4	8
28	Multifunctional Carbon Nanocomposites as Nanoneurons from Multimode and Multianalyte Sensing to Molecular Logic Computing, Steganography, and Cryptography. <i>Small</i> , 2021, 17, e2103983.	5.2	8
29	Natural interface guiding cell: Directly using waste fish scales with rich micro/nano structures for control of cell behaviors. <i>Applied Surface Science</i> , 2022, 581, 152348.	3.1	8
30	Microbial Lipopeptide Supramolecular Self-Assemblies as a Methuosis-Like Cell Death Inducer with In Vivo Antitumor Activity. <i>Small</i> , 2022, 18, e2104034.	5.2	6
31	A molecular paradigm: "Plug-and-play" chemical sensing and crypto-steganography based on molecular recognition and selective response. <i>Biosensors and Bioelectronics</i> , 2022, 209, 114260.	5.3	5
32	Game Theory in Molecular Nanosensing System for Rapid Detection of Hg ²⁺ in Aqueous Solutions. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2530.	1.3	4
33	Directly repurposing waste optical discs with prefabricated nanogrooves as a platform for investigation of cell-substrate interactions and guiding neuronal growth. <i>Ecotoxicology and Environmental Safety</i> , 2018, 160, 273-281.	2.9	4
34	The Boolean logic tree of molecular self-assembly system based on cobalt oxyhydroxide nanoflakes for three-state logic computation, sensing and imaging of pyrophosphate in living cells and in vivo. <i>Analyst, The</i> , 2019, 144, 274-283.	1.7	4
35	Peptide-based system for sensing Pb ²⁺ and molecular logic computing. <i>Analytical Biochemistry</i> , 2021, 630, 114333.	1.1	4
36	Boolean-logic-based nano-platform for competitive detection of biomacromolecules, surfactants, and explosives. <i>Sensors and Actuators B: Chemical</i> , 2015, 210, 225-231.	4.0	3

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37	Migration inhibition and selective cytotoxicity of cobalt hydroxide nanosheets on different cancer cell lines. <i>New Journal of Chemistry</i> , 2022, 46, 10289-10298.	1.4	3