Hong-Wu Tang

List of Publications by Year
in descending order

77	1,949	257450 24	289244 40
papers	citations	h-index	g-index

77	77	77	2542
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Probing Intrinsic and Extrinsic Components in Single Osteosarcoma Cells by Near-Infrared Surface-Enhanced Raman Scattering. Analytical Chemistry, 2007, 79, 3646-3653.	6.5	96
2	MUC-1 aptamer-conjugated dye-doped silica nanoparticles for MCF-7 cells detection. Biomaterials, 2013, 34, 371-381.	11.4	90
3	Metal-enhanced fluorescent dye-doped silica nanoparticles and magnetic separation: A sensitive platform for one-step fluorescence detection of prostate specific antigen. Biosensors and Bioelectronics, 2017, 87, 881-887.	10.1	84
4	DNA-stabilized silver nanoclusters and carbon nanoparticles oxide: A sensitive platform for label-free fluorescence turn-on detection of HIV-DNA sequences. Biosensors and Bioelectronics, 2016, 85, 837-843.	10.1	82
5	Holographic Optical Tweezers and Boosting Upconversion Luminescent Resonance Energy Transfer Combined Clustered Regularly Interspaced Short Palindromic Repeats (CRISPR)/Cas12a Biosensors. ACS Nano, 2021, 15, 8142-8154.	14.6	78
6	Determination of Rutin with UV-Vis Spectrophotometric and Laser-Induced Fluorimetric Detections Using a Non-Scanning Spectrometer. Analytical Letters, 2010, 43, 893-904.	1.8	76
7	Amplified Fluorescent Sensing of DNA Using Graphene Oxide and a Conjugated Cationic Polymer. Biomacromolecules, 2013, 14, 117-123.	5.4	69
8	Graphene oxide based fluorescent aptasensor for adenosine deaminase detection using adenosine as the substrate. Biosensors and Bioelectronics, 2012, 37, 61-67.	10.1	62
9	Graphene Oxideâ€Based Fluorescent Biosensor for Protein Detection via Terminal Protection of Smallâ€Moleculeâ€Linked DNA. Small, 2013, 9, 2097-2101.	10.0	57
10	A boosting upconversion luminescent resonance energy transfer and biomimetic periodic chip integrated CRISPR/Cas12a biosensor for functional DNA regulated transduction of non-nucleic acid targets. Biosensors and Bioelectronics, 2020, 169, 112650.	10.1	57
11	Quantum-dot-based immunofluorescent imaging of HER2 and ER provides new insights into breast cancer heterogeneity. Nanotechnology, 2010, 21, 095101.	2.6	56
12	Interaction of single-stranded DNA with graphene oxide: fluorescence study and its application for S1 nuclease detection. RSC Advances, 2014, 4, 18294-18300.	3.6	53
13	Indirect immunofluorescence detection of E. coli O157:H7 with fluorescent silica nanoparticles. Biosensors and Bioelectronics, 2015, 66, 95-102.	10.1	44
14	Silica nanoparticles based label-free aptamer hybridization for ATP detection using hoechst33258 as the signal reporter. Biosensors and Bioelectronics, 2011, 29, 46-52.	10.1	40
15	Bioinspired sensor chip for detection of miRNA-21 based on photonic crystals assisted cyclic enzymatic amplification method. Biosensors and Bioelectronics, 2020, 150, 111866.	10.1	39
16	An ultra-high sensitive platform for fluorescence detection of micrococcal nuclease based on grapheneoxide. Biosensors and Bioelectronics, 2013, 42, 467-473.	10.1	36
17	Spectrally Combined Encoding for Profiling Heterogeneous Circulating Tumor Cells Using a Multifunctional Nanosphereâ€Mediated Microfluidic Platform. Angewandte Chemie - International Edition, 2020, 59, 11240-11244.	13.8	36
18	Dual Amplification Fluorescence Assay for Alpha Fetal Protein Utilizing Immunohybridization Chain Reaction and Metal-Enhanced Fluorescence of Carbon Nanodots. ACS Applied Materials & Interfaces, 2017, 9, 37606-37614.	8.0	34

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19	Detection of ATP from â€œfluorescenceâ€•to â€œenhanced fluorescenceâ€•based on metal-enhanced fluorescence triggered by aptamer nanoswitch. Sensors and Actuators B: Chemical, 2020, 319, 128263.	7.8	32
20	Combining Holographic Optical Tweezers with Upconversion Luminescence Encoding: Imaging-Based Stable Suspension Array for Sensitive Responding of Dual Cancer Biomarkers. Analytical Chemistry, 2018, 90, 2639-2647.	6.5	30
21	A Photoresponsive and Metalâ€“Organic Framework Encapsulated DNA Tetrahedral Entropy-Driven Amplifier for High-Performance Imaging Intracellular MicroRNA. Analytical Chemistry, 2021, 93, 16638-16645.	6.5	29
22	Chemical Probing of Single Cancer Cells with Gold Nanoaggregates by Surface-Enhanced Raman Scattering. Applied Spectroscopy, 2008, 62, 1060-1069.	2.2	28
23	Metal-enhanced fluorescence of gold nanoclusters as a sensing platform for multi-component detection. Sensors and Actuators B: Chemical, 2019, 282, 650-658.	7.8	28
24	Light-Activated and Self-Driven Autonomous DNA Nanomachine Enabling Fluorescence Imaging of MicroRNA in Living Cells with Exceptional Precision and Efficiency. ACS Applied Materials & Interfaces, 2021, 13, 31485-31494.	8.0	27
25	Fluorescence resonance energy transfer between acridine orange and rhodamine 6G and its analytical application for vitamin B12 with flow-injection laser-induced fluorescence detection. Talanta, 2008, 77, 176-181.	5.5	26
26	Amplification of the Fluorescence Signal with Clustered Regularly Interspaced Short Palindromic Repeats-Cas12a Based on Au Nanoparticle-DNAzyme Probe and On-Site Detection of Pb²⁺ Via the Photonic Crystal Chip. ACS Sensors, 2022, 7, 1572-1580.	7.8	25
27	Exploring Sialic Acid Receptorsâ€Related Infection Behavior of Avian Influenza Virus in Human Bronchial Epithelial Cells by Singleâ€Particle Tracking. Small, 2014, 10, 2712-2720.	10.0	24
28	Lipid-Specific Labeling of Enveloped Viruses with Quantum Dots for Single-Virus Tracking. MBio, 2020, 11, .	4.1	24
29	Fluorescence Detection of H5N1 Virus Gene Sequences Based on Optical Tweezers with Two-Photon Excitation Using a Single Near Infrared Nanosecond Pulse Laser. Analytical Chemistry, 2016, 88, 4432-4439.	6.5	23
30	A fluorescent aptasensor using double-stranded DNA/graphene oxide as the indicator probe. Biosensors and Bioelectronics, 2016, 78, 431-437.	10.1	22
31	Detection of Amyloid Î² Oligomers by a Fluorescence Ratio Strategy Based on Optically Trapped Highly Doped Upconversion Nanoparticles-SiO₂@Metalâ€“Organic Framework Microspheres. Analytical Chemistry, 2021, 93, 12447-12455.	6.5	22
32	Photo-gated and self-powered three-dimensional DNA motors with boosted biostability for exceptionally precise and efficient tracing of intracellular survivin mRNA. Biosensors and Bioelectronics, 2021, 190, 113445.	10.1	22
33	Breaking Through Bead-Supported Assay: Integration of Optical Tweezers Assisted Fluorescence Imaging and Luminescence Confined Upconversion Nanoparticles Triggered Luminescent Resonance Energy Transfer (LRET). Analytical Chemistry, 2019, 91, 7950-7957.	6.5	21
34	Target-triggered signal turn-on detection of prostate specific antigen based on metal-enhanced fluorescence of Ag@SiO₂@SiO₂-RuBpy composite nanoparticles. Nanotechnology, 2017, 28, 065501.	2.6	19
35	Integrating optical tweezers with up-converting luminescence: a non-amplification analytical platform for quantitative detection of microRNA-21 sequences. Chemical Communications, 2017, 53, 4092-4095.	4.1	19
36	Covalent conjugation of avidin with dye-doped silica nanopaticles and preparation of high density avidin nanoparticles as photostable bioprobes. Biosensors and Bioelectronics, 2012, 37, 75-81.	10.1	18

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37	Sensitive multiplexed DNA detection using silica nanoparticles as the target capturing platform. Talanta, 2014, 128, 263-267.	5.5	18
38	One-step separation-free detection of carcinoembryonic antigen in whole serum: Combination of two-photon excitation fluorescence and optical trapping. Biosensors and Bioelectronics, 2017, 90, 146-152.	10.1	17
39	Real-Time Monitoring of Temperature Variations around a Gold Nanobipyramid Targeted Cancer Cell under Photothermal Heating by Actively Manipulating an Optically Trapped Luminescent Upconversion Microparticle. Analytical Chemistry, 2020, 92, 1292-1300.	6.5	17
40	Integrating 808 nm Light-Excited Upconversion Luminescence Powering with DNA Tetrahedron Protection: An Exceptionally Precise and Stable Nanomachine for Intracelluar MicroRNA Tracing. ACS Sensors, 2020, 5, 199-207.	7.8	17
41	Hadamard transform fluorescence image microscopy using one-dimensional movable mask. Analytica Chimica Acta, 2002, 468, 27-34.	5.4	16
42	A gold nanoparticle-based label free colorimetric aptasensor for adenosine deaminase detection and inhibition assay. Analyst, The, 2015, 140, 1572-1577.	3.5	16
43	Colorimetric and visual determination of DNase I activity using gold nanoparticles as an indicator. Mikrochimica Acta, 2017, 184, 101-106.	5.0	16
44	Study on the chemiluminescence resonance energy transfer between luminol and fluorescent dyes using a linear CCD spectrometer. Journal of Luminescence, 2010, 130, 1872-1879.	3.1	14
45	In situ spectral imaging of marker proteins in gastric cancer with near-infrared and visible quantum dots probes. Talanta, 2011, 85, 136-141.	5.5	14
46	Evaluation of Luminescence Properties of Single Hydrophilic Upconversion Nanoparticles by Optical Trapping. Journal of Physical Chemistry C, 2019, 123, 10107-10113.	3.1	14
47	Amplified fluorescent assay of potassium ions using graphene oxide and a conjugated cationic polymer. Analyst, The, 2013, 138, 6301.	3.5	13
48	Dual-component gene detection for H7N9 virus â€“ The combination of optical trapping and bead-based fluorescence assay. Biosensors and Bioelectronics, 2016, 86, 1031-1037.	10.1	13
49	Multiple optical trapping assisted bead-array based fluorescence assay of free and total prostate-specific antigen in serum. Sensors and Actuators B: Chemical, 2018, 269, 143-150.	7.8	13
50	Three-dimensional hierarchical MoO₂/MoC@NC-CC free-standing anode applied in microbial fuel cells. Journal of Materials Chemistry A, 2022, 10, 4110-4119.	10.3	13
51	Graphene Oxide and Metalâ€Mediated Base Pairs Based â€œMolecular Beaconâ€•Integrating with Exonuclease I for Fluorescence Turnâ€on Detection of Biothiols. Small, 2014, 10, 3412-3420.	10.0	12
52	Improving Flow Bead Assay: Combination of Near-Infrared Optical Tweezers Stabilizing and Upconversion Luminescence Encoding. Analytical Chemistry, 2020, 92, 5258-5266.	6.5	12
53	Biomimetic Chip Enhanced Time-Gated Luminescent CRISPR-Cas12a Biosensors under Functional DNA Regulation. Analytical Chemistry, 2021, 93, 12514-12523.	6.5	12
54	Incorporating luminescence-concentrating upconversion nanoparticles and DNA walkers into optical tweezers assisted imaging: a highly stable and ultrasensitive bead supported assay. Chemical Communications, 2020, 56, 6997-7000.	4.1	12

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55	Hadamard transform spectral microscopy for single cell imaging using organic and quantum dotfluorescent probes. Analyst, The, 2009, 134, 504-511.	3.5	11
56	Fluorescent sensing of thrombin using a magnetic nano-platform with aptamer-target-aptamer sandwich and fluorescent silica nanoprobe. Journal of Luminescence, 2017, 187, 9-13.	3.1	11
57	Integrating multiple hybridization chain reactions on gold nanoparticle and alkaline phosphatase-mediated in situ growth of gold nanobipyramids: An ultrasensitive and high color resolution colorimetric method to detect the mecA gene of Staphylococcus aureus. Journal of Hazardous Materials, 2021, 418, 126223.	12.4	11
58	Evaluation of the Bioconjugation Efficiency of Different Quantum Dots as Probes for Immunostaining Tumor-Marker Proteins. Applied Spectroscopy, 2010, 64, 847-854.	2.2	10
59	An exonuclease III-aided â€œturn-onâ€•fluorescence assay for mercury ions based on graphene oxide and metal-mediated â€œmolecular beaconâ€• RSC Advances, 2015, 5, 12994-12999.	3.6	10
60	Influenza A Viruses Enter Host Cells via Extracellular Ca²⁺ Influx-Involved Clathrin-Mediated Endocytosis. ACS Applied Bio Materials, 2021, 4, 2044-2051.	4.6	10
61	Monitoring of viral myocarditis injury using an energy-confined upconversion nanoparticle and nature-inspired biochip combined CRISPR/Cas12a-powered biosensor. Analytica Chimica Acta, 2022, 1195, 339455.	5.4	10
62	Study on Schiff base complexesâ€“cellular DNA interactions by a novel system of Hadamard transform fluorescence image microscopy. Analyst, The, 2003, 128, 974-979.	3.5	9
63	Microcalorimetric and microscopic studies on the inhibitory activities of methylene blue/TiO2 nanocomposites on Staphylococcus aureus and the mechanism of cell damage. Thermochimica Acta, 2010, 501, 8-12.	2.7	8
64	Goat anti-rabbit IgG conjugated fluorescent dye-doped silica nanoparticles for human breast carcinoma cell recognition. Analyst, The, 2013, 138, 7411.	3.5	8
65	Graphene oxide enhanced specificity at aptamer and its application to multiplexed enzymatic activity sensing. RSC Advances, 2016, 6, 11815-11821.	3.6	7
66	A dual DNA tetrahedrons and MnO2 nanosheets sustained entropy-driven DNA amplifier enables high-performance operation in live cells and bodies under a light-gated manner. Chemical Engineering Journal, 2022, 438, 135590.	12.7	7
67	Measurements of the DNA Content in a Breast Tumor Cell Based on the Hadamard Transform Microscopic Fluorescence Image.. Analytical Sciences, 1999, 15, 113-119.	1.6	6
68	Sphingomyelin-Sequestered Cholesterol Domain Recruits Formin-Binding Protein 17 for Constricting Clathrin-Coated Pits in Influenza Virus Entry. Journal of Virology, 2022, 96, JVI0181321.	3.4	6
69	High-resolution Hadamard transform microscope fluorescence imaging: quantifying the DNA content in single cells. Analytical and Bioanalytical Chemistry, 2005, 381, 901-906.	3.7	5
70	Quantitative DNA Imaging in Breast Tumor Cells by a Hadamard Transform Fluorescence Imaging Microscope. Analytical Sciences, 2006, 22, 701-707.	1.6	5
71	Preparation of RuBpy-doped Silica Fluorescent Nanoprobes and Their Applications to the Recognition of Liver Cancer Cells. Chinese Journal of Analytical Chemistry, 2014, 42, 326-331.	1.7	5
72	Using optical tweezers to construct an upconversion luminescent resonance energy transfer analytical platform. Sensors and Actuators B: Chemical, 2019, 282, 790-797.	7.8	5

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73	Spectrally Combined Encoding for Profiling Heterogeneous Circulating Tumor Cells Using a Multifunctional Nanosphereâ€Mediated Microfluidic Platform. Angewandte Chemie, 2020, 132, 11336-11340.	2.0	4
74	Revealing Microtubule-Dependent Slow-Directed Motility by Single-Particle Tracking. Analytical Chemistry, 2021, 93, 5211-5217.	6.5	4
75	Optical tweezers assisted analyzing and sorting of tumor cells tagged with fluorescence nanospheres in a microfluidic chip. Sensors and Actuators B: Chemical, 2022, 368, 132173.	7.8	4
76	Singleâ€Cell Analysis in a Plastic Microfluidic Channel with a Hadamard Transform Microscopic Fluorescence Image System. Analytical Letters, 2004, 37, 2053-2065.	1.8	3
77	Analysis of Cancer Marker in Tissues with Hadamard Transform Fluorescence Spectral Microscopic Imaging. Journal of Fluorescence, 2015, 25, 397-402.	2.5	3