Dai-Wen Pang

List of Publications by Year in descending order

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246 papers	13,849 citations	22099 59 h-index	27345 106 g-index
250 all docs	250 docs citations	250 times ranked	14758 citing authors

#	Article	IF	Citations
1	Electrochemical Tuning of Luminescent Carbon Nanodots: From Preparation to Luminescence Mechanism. Advanced Materials, 2011, 23, 5801-5806.	11.1	872
2	Facile preparation of low cytotoxicity fluorescent carbon nanocrystals by electrooxidation of graphite. Chemical Communications, 2008, , 5116.	2.2	786
3	Photoluminescenceâ€Tunable Carbon Nanodots: Surfaceâ€State Energyâ€Gap Tuning. Advanced Materials, 2015, 27, 1663-1667.	11.1	658
4	Ultrasmall Near-Infrared Ag₂Se Quantum Dots with Tunable Fluorescence for in Vivo Imaging. Journal of the American Chemical Society, 2012, 134, 79-82.	6.6	313
5	Bright quantum dots emitting at â¼1,600 nm in the NIR-IIb window for deep tissue fluorescence imaging. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6590-6595.	3.3	310
6	Water-soluble Ag2S quantum dots for near-infrared fluorescence imaging inÂvivo. Biomaterials, 2012, 33, 5130-5135.	5.7	288
7	Quick-Response Magnetic Nanospheres for Rapid, Efficient Capture and Sensitive Detection of Circulating Tumor Cells. ACS Nano, 2014, 8, 941-949.	7.3	228
8	Fluorescent-Magnetic-Biotargeting Multifunctional Nanobioprobes for Detecting and Isolating Multiple Types of Tumor Cells. ACS Nano, 2011, 5, 761-770.	7.3	192
9	Ag₂Se Quantum Dots with Tunable Emission in the Second Near-Infrared Window. ACS Applied Materials & Interfaces, 2013, 5, 1186-1189.	4.0	188
10	Emission-Tunable Near-Infrared Ag₂S Quantum Dots. Chemistry of Materials, 2012, 24, 3-5.	3.2	183
11	Sensitive and Quantitative Detection of C-Reaction Protein Based on Immunofluorescent Nanospheres Coupled with Lateral Flow Test Strip. Analytical Chemistry, 2016, 88, 6577-6584.	3.2	180
12	Living Yeast Cells as a Controllable Biosynthesizer for Fluorescent Quantum Dots. Advanced Functional Materials, 2009, 19, 2359-2364.	7.8	178
13	Shifting and non-shifting fluorescence emitted by carbon nanodots. Journal of Materials Chemistry, 2012, 22, 5917.	6.7	177
14	Molecularly Engineered Macrophageâ€Derived Exosomes with Inflammation Tropism and Intrinsic Heme Biosynthesis for Atherosclerosis Treatment. Angewandte Chemie - International Edition, 2020, 59, 4068-4074.	7.2	164
15	Near-Infrared Electrogenerated Chemiluminescence of Ultrasmall Ag₂Se Quantum Dots for the Detection of Dopamine. Analytical Chemistry, 2012, 84, 8932-8935.	3.2	162
16	Colorimetric-Fluorescent-Magnetic Nanosphere-Based Multimodal Assay Platform for Salmonella Detection. Analytical Chemistry, 2019, 91, 1178-1184.	3.2	152
17	Strongly fluorescent hydrogels with quantum dots embedded in cellulose matrices. Journal of Materials Chemistry, 2009, 19, 7771.	6.7	146
18	Ultrasmall Magnetically Engineered Ag₂Se Quantum Dots for Instant Efficient Labeling and Whole-Body High-Resolution Multimodal Real-Time Tracking of Cell-Derived Microvesicles. Journal of the American Chemical Society, 2016, 138, 1893-1903.	6.6	143

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19	Cell-Targeting Multifunctional Nanospheres with both Fluorescence and Magnetism. Small, 2005, 1, 506-509.	5.2	142
20	Enzyme-Induced Metallization as a Signal Amplification Strategy for Highly Sensitive Colorimetric Detection of Avian Influenza Virus Particles. Analytical Chemistry, 2014, 86, 2752-2759.	3.2	137
21	Long-term increased grain yield and soil fertility from intercropping. Nature Sustainability, 2021, 4, 943-950.	11.5	137
22	Single-Virus Tracking: From Imaging Methodologies to Virological Applications. Chemical Reviews, 2020, 120, 1936-1979.	23.0	131
23	Magnetic and Folate Functionalization Enables Rapid Isolation and Enhanced Tumor-Targeting of Cell-Derived Microvesicles. ACS Nano, 2017, 11, 277-290.	7.3	130
24	Dual-Signal Readout Nanospheres for Rapid Point-of-Care Detection of Ebola Virus Glycoprotein. Analytical Chemistry, 2017, 89, 13105-13111.	3.2	128
25	Effectively and Efficiently Dissecting the Infection of Influenza Virus by Quantum-Dot-Based Single-Particle Tracking. ACS Nano, 2012, 6, 141-150.	7.3	127
26	One-Step Sensitive Detection of Salmonella typhimurium by Coupling Magnetic Capture and Fluorescence Identification with Functional Nanospheres. Analytical Chemistry, 2013, 85, 1223-1230.	3.2	125
27	Imaging Viral Behavior in Mammalian Cells with Selfâ€Assembled Capsidâ€“Quantumâ€Dot Hybrid Particles. Small, 2009, 5, 718-726.	5.2	120
28	Uniform Fluorescent Nanobioprobes for Pathogen Detection. ACS Nano, 2014, 8, 5116-5124.	7.3	120
29	A Method for the Fabrication of Low-Noise Carbon Fiber Nanoelectrodes. Analytical Chemistry, 2001, 73, 1048-1052.	3.2	114
30	Detection of SARS-CoV-2 by CRISPR/Cas12a-Enhanced Colorimetry. ACS Sensors, 2021, 6, 1086-1093.	4.0	108
31	Tracking single viruses infecting their host cells using quantum dots. Chemical Society Reviews, 2016, 45, 1211-1224.	18.7	106
32	Plasmonic and Photothermal Immunoassay via Enzyme-Triggered Crystal Growth on Gold Nanostars. Analytical Chemistry, 2019, 91, 2086-2092.	3.2	103
33	Mechanism-Oriented Controllability of Intracellular Quantum Dots Formation: The Role of Glutathione Metabolic Pathway. ACS Nano, 2013, 7, 2240-2248.	7.3	96
34	A colorimetric and electrochemical immunosensor for point-of-care detection of enterovirus 71. Biosensors and Bioelectronics, 2018, 99, 186-192.	5.3	94
35	Fluorescent/magnetic micro/nano-spheres based on quantum dots and/or magnetic nanoparticles: preparation, properties, and their applications in cancer studies. Nanoscale, 2016, 8, 12406-12429.	2.8	93
36	Clathrin-Mediated Endocytosis in Living Host Cells Visualized through Quantum Dot Labeling of Infectious Hematopoietic Necrosis Virus. Journal of Virology, 2011, 85, 6252-6262.	1.5	92

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37	Intercropping maintains soil fertility in terms of chemical properties and enzyme activities on a timescale of one decade. Plant and Soil, 2015, 391, 265-282.	1.8	89
38	Transformation of Cellâ€Derived Microparticles into Quantumâ€Dotâ€Labeled Nanovectors for Antitumor siRNA Delivery. Angewandte Chemie - International Edition, 2015, 54, 1036-1040.	7.2	86
39	Mechanofluorochromic Carbon Nanodots: Controllable Pressureâ€Triggered Blueâ€•and Redâ€Shifted Photoluminescence. Angewandte Chemie - International Edition, 2018, 57, 1893-1897.	7.2	86
40	Revealing Carbon Nanodots As Coreactants of the Anodic Electrochemiluminescence of Ru(bpy)₃²⁺. Analytical Chemistry, 2014, 86, 7224-7228.	3.2	83
41	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.	5.3	82
42	Intercropping Enhances Productivity and Maintains the Most Soil Fertility Properties Relative to Sole Cropping. PLoS ONE, 2014, 9, e113984.	1.1	79
43	Real-Time Monitoring of Nitric Oxide at Single-Cell Level with Porphyrin-Functionalized Graphene Field-Effect Transistor Biosensor. Analytical Chemistry, 2016, 88, 11115-11122.	3.2	78
44	Ultrasmall Pb:Ag₂S Quantum Dots with Uniform Particle Size and Bright Tunable Fluorescence in the NIRâ€II Window. Small, 2018, 14, e1703296.	5.2	78
45	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.	7.3	78
46	A micropillarâ€integrated smart microfluidic device for specific capture and sorting of cells. Electrophoresis, 2007, 28, 4713-4722.	1.3	77
47	A Simple Point-of-Care Microfluidic Immunomagnetic Fluorescence Assay for Pathogens. Analytical Chemistry, 2013, 85, 2645-2651.	3.2	77
48	A chip assisted immunomagnetic separation system for the efficient capture and in situ identification of circulating tumor cells. Lab on A Chip, 2016, 16, 1214-1223.	3.1	75
49	A field effect transistor modified with reduced graphene oxide for immunodetection of Ebola virus. Mikrochimica Acta, 2019, 186, 223.	2.5	74
50	Robust and Highly Sensitive Fluorescence Approach for Point-of-Care Virus Detection Based on Immunomagnetic Separation. Analytical Chemistry, 2012, 84, 2358-2365.	3.2	73
51	An efficient edge-functionalization method to tune the photoluminescence of graphene quantum dots. Nanoscale, 2015, 7, 5969-5973.	2.8	73
52	Reliable Digital Single Molecule Electrochemistry for Ultrasensitive Alkaline Phosphatase Detection. Analytical Chemistry, 2016, 88, 9166-9172.	3.2	73
53	Stable CsPbBr₃ perovskite quantum dots with high fluorescence quantum yields. New Journal of Chemistry, 2018, 42, 9496-9500.	1.4	71
54	Cell Membraneâ€Camouflaged NIR II Fluorescent Ag₂Te Quantum Dotsâ€Based Nanobioprobes for Enhanced In Vivo Homotypic Tumor Imaging. Advanced Healthcare Materials, 2019, 8, e1900341.	3.9	68

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55	Digital Single Virus Immunoassay for Ultrasensitive Multiplex Avian Influenza Virus Detection Based on Fluorescent Magnetic Multifunctional Nanospheres. ACS Applied Materials & Interfaces, 2019, 11, 5762-5770.	4.0	66
56	Optically Encoded Multifunctional Nanospheres for One-Pot Separation and Detection of Multiplex DNA Sequences. Analytical Chemistry, 2013, 85, 11929-11935.	3.2	65
57	Breaking through the Size Control Dilemma of Silver Chalcogenide Quantum Dots via Trialkylphosphine-Induced Ripening: Leading to Ag₂Te Emitting from 950 to 2100 nm. Journal of the American Chemical Society, 2021, 143, 12867-12877.	6.6	65
58	Fluorescenceâ€Converging Carbon Nanodotsâ€Hybridized Silica Nanosphere. Small, 2016, 12, 4702-4706.	5.2	63
59	Wheat Germ Agglutinin-Modified Trifunctional Nanospheres for Cell Recognition. Bioconjugate Chemistry, 2007, 18, 1749-1755.	1.8	62
60	Visualizing the endocytic and exocytic processes of wheat germ agglutinin by quantum dot-based single-particle tracking. Biomaterials, 2011, 32, 7616-7624.	5.7	62
61	Lectin-modified trifunctional nanobiosensors for mapping cell surface glycoconjugates. Biosensors and Bioelectronics, 2009, 24, 1311-1317.	5.3	61
62	High-efficiency dual labeling of influenza virus for single-virus imaging. Biomaterials, 2012, 33, 7828-7833.	5.7	61
63	Real-Time Dissection of Distinct Dynamin-Dependent Endocytic Routes of Influenza A Virus by Quantum Dot-Based Single-Virus Tracking. ACS Nano, 2017, 11, 4395-4406.	7.3	61
64	Nearâ€Infrared Fluorescent Ag₂Seâ€“Cetuximab Nanoprobes for Targeted Imaging and Therapy of Cancer. Small, 2017, 13, 1602309.	5.2	61
65	Surface Sensitive Photoluminescence of Carbon Nanodots: Coupling between the Carbonyl Group and Ï€-Electron System. Journal of Physical Chemistry Letters, 2019, 10, 3621-3629.	2.1	61
66	Visual Recognition and Efficient Isolation of Apoptotic Cells with Fluorescent-Magnetic-Biotargeting Multifunctional Nanospheres. Clinical Chemistry, 2007, 53, 2177-2185.	1.5	60
67	Electrochemical oxidation of DNA at a gold microelectrode. Electroanalysis, 1995, 7, 774-777.	1.5	59
68	Combination of dynamic magnetophoretic separation and stationary magnetic trap for highly sensitive and selective detection of Salmonella typhimurium in complex matrix. Biosensors and Bioelectronics, 2015, 74, 628-636.	5.3	59
69	A â€œDriver Switchoverâ€•Mechanism of Influenza Virus Transport from Microfilaments to Microtubules. ACS Nano, 2018, 12, 474-484.	7.3	59
70	Ultrasensitive Ebola Virus Detection Based on Electroluminescent Nanospheres and Immunomagnetic Separation. Analytical Chemistry, 2017, 89, 2039-2048.	3.2	58
71	Quantum Dot Based Biotracking and Biodetection. Analytical Chemistry, 2019, 91, 532-547.	3.2	58
72	A multicomponent recognition and separation system established via fluorescent, magnetic, dualencoded multifunctional bioprobes. Biomaterials, 2011, 32, 1177-1184.	5.7	57

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73	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.	5.3	57
74	Photoinduced Electron Transfer Mediated by Coordination between Carboxyl on Carbon Nanodots and Cu²⁺ Quenching Photoluminescence. Journal of Physical Chemistry C, 2018, 122, 3662-3668.	1.5	56
75	The quantitative detection of total HER2 load by quantum dots and the identification of a new subtype of breast cancer with different 5-year prognosis. Biomaterials, 2010, 31, 8818-8825.	5.7	55
76	Bifunctional magnetic nanobeads for sensitive detection of avian influenza A (H7N9) virus based on immunomagnetic separation and enzyme-induced metallization. Biosensors and Bioelectronics, 2015, 68, 586-592.	5.3	54
77	Digital Single Virus Electrochemical Enzyme-Linked Immunoassay for Ultrasensitive H7N9 Avian Influenza Virus Counting. Analytical Chemistry, 2018, 90, 1683-1690.	3.2	53
78	A virus-induced kidney disease model based on organ-on-a-chip: Pathogenesis exploration of virus-related renal dysfunctions. Biomaterials, 2019, 219, 119367.	5.7	53
79	Ebola Virus Aptamers: From Highly Efficient Selection to Application on Magnetism-Controlled Chips. Analytical Chemistry, 2019, 91, 3367-3373.	3.2	53
80	Myosin-Driven Intercellular Transportation of Wheat Germ Agglutinin Mediated by Membrane Nanotubes between Human Lung Cancer Cells. ACS Nano, 2012, 6, 10033-10041.	7.3	52
81	Nanosphere-based one-step strategy for efficient and nondestructive detection of circulating tumor cells. Biosensors and Bioelectronics, 2017, 94, 219-226.	5.3	52
82	Globally Visualizing the Microtubule-Dependent Transport Behaviors of Influenza Virus in Live Cells. Analytical Chemistry, 2014, 86, 3902-3908.	3.2	51
83	Chip-Assisted Single-Cell Biomarker Profiling of Heterogeneous Circulating Tumor Cells Using Multifunctional Nanospheres. Analytical Chemistry, 2018, 90, 10518-10526.	3.2	50
84	One-to-Many Single Entity Electrochemistry Biosensing for Ultrasensitive Detection of microRNA. Analytical Chemistry, 2020, 92, 853-858.	3.2	50
85	Photocatalysis-Induced Renewable Field-Effect Transistor for Protein Detection. Analytical Chemistry, 2016, 88, 4048-4054.	3.2	49
86	Efficient Enrichment and Analyses of Bacteria at Ultralow Concentration with Quick-Response Magnetic Nanospheres. ACS Applied Materials & Interfaces, 2017, 9, 9416-9425.	4.0	49
87	Pathological hydrogen peroxide triggers the fibrillization of wild-type SOD1 via sulfenic acid modification of Cys-111. Cell Death and Disease, 2018, 9, 67.	2.7	49
88	Labeling the nucleocapsid of enveloped baculovirus with quantum dots for single-virus tracking. Biomaterials, 2014, 35, 2295-2301.	5.7	48
89	Folate-Engineered Microvesicles for Enhanced Target and Synergistic Therapy toward Breast Cancer. ACS Applied Materials & Interfaces, 2017, 9, 5100-5108.	4.0	48
90	Multifunctional Screening Platform for the Highly Efficient Discovery of Aptamers with High Affinity and Specificity. Analytical Chemistry, 2017, 89, 6535-6542.	3.2	47

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91	Fast and High-Accuracy Localization for Three-Dimensional Single-Particle Tracking. Scientific Reports, 2013, 3, 2462.	1.6	46
92	Ultrasensitive Electrochemiluminescence Biosensor Based on Closed Bipolar Electrode for Alkaline Phosphatase Detection in Single Liver Cancer Cell. Analytical Chemistry, 2021, 93, 1757-1763.	3.2	46
93	Energy-Level-Related Response of Cathodic Electrogenerated-Chemiluminescence of Self-Assembled CdSe/ZnS Quantum Dot Films. Journal of Physical Chemistry C, 2011, 115, 18822-18828.	1.5	45
94	Quantum-dots based simultaneous detection of multiple biomarkers of tumor stromal features to predict clinical outcomes in gastric cancer. Biomaterials, 2012, 33, 5742-5752.	5.7	45
95	Rapid detection and subtyping of multiple influenza viruses on a microfluidic chip integrated with controllable micro-magnetic field. Biosensors and Bioelectronics, 2018, 100, 348-354.	5.3	45
96	Gd-DTPA-coupled Ag₂Se quantum dots for dual-modality magnetic resonance imaging and fluorescence imaging in the second near-infrared window. Nanoscale, 2018, 10, 10699-10704.	2.8	45
97	Ultrasensitive electrochemical detection of microRNA-21 with wide linear dynamic range based on dual signal amplification. Biosensors and Bioelectronics, 2019, 131, 267-273.	5.3	45
98	Indirect immunofluorescence detection of E. coli O157:H7 with fluorescent silica nanoparticles. Biosensors and Bioelectronics, 2015, 66, 95-102.	5.3	44
99	Electrochemical Methods to Study Photoluminescent Carbon Nanodots: Preparation, Photoluminescence Mechanism and Sensing. ACS Applied Materials & Interfaces, 2016, 8, 28372-28382.	4.0	44
100	Quantum Dots: A Promising Fluorescent Label for Probing Virus Trafficking. Accounts of Chemical Research, 2021, 54, 2991-3002.	7.6	44
101	Nearâ€Infraredâ€Ⅱ Quantum Dots for In Vivo Imaging and Cancer Therapy. Small, 2022, 18, e2104567.	5.2	44
102	Simultaneous Point-of-Care Detection of Enterovirus 71 and Coxsackievirus B3. Analytical Chemistry, 2015, 87, 11105-11112.	3.2	43
103	Surface Labeling of Enveloped Viruses Assisted by Host Cells. ACS Chemical Biology, 2012, 7, 683-688.	1.6	42
104	Self-biotinylation and site-specific double labeling of baculovirus using quantum dots for single-virus in-situ tracking. Biomaterials, 2013, 34, 7506-7518.	5.7	42
105	Clicking Hydrazine and Aldehyde: The Way to Labeling of Viruses with Quantum Dots. ACS Nano, 2015, 9, 11750-11760.	7.3	42
106	MnCaCs-Biomineralized Oncolytic Virus for Bimodal Imaging-Guided and Synergistically Enhanced Anticancer Therapy. Nano Letters, 2019, 19, 8002-8009.	4.5	41
107	Controlling the Magnetic Field Distribution on the Micrometer Scale and Generation of Magnetic Bead Patterns for Microfluidic Applications. Langmuir, 2011, 27, 5147-5156.	1.6	40
108	Fluorescentâ€“magnetic dual-encoded nanospheres: a promising tool for fast-simultaneous-addressable high-throughput analysis. Nanotechnology, 2012, 23, 035602.	1.3	40

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109	Near-infrared Ag₂Se quantum dots with distinct absorption features and high fluorescence quantum yields. RSC Advances, 2016, 6, 38183-38186.	1.7	40
110	Labeling viral envelope lipids with quantum dots by harnessing the biotinylated lipid-self-inserted cellular membrane. Biomaterials, 2016, 106, 69-77.	5.7	40
111	Threeâ€Dimensional Tracking of Rab5â€•and Rab7â€Associated Infection Process of Influenza Virus. Small, 2014, 10, 4746-4753.	5.2	37
112	Biofunctionalized magnetic nanospheres-based cell sorting strategy for efficient isolation, detection and subtype analyses of heterogeneous circulating hepatocellular carcinoma cells. Biosensors and Bioelectronics, 2016, 85, 633-640.	5.3	36
113	Spectrally Combined Encoding for Profiling Heterogeneous Circulating Tumor Cells Using a Multifunctional Nanosphereâ€Mediated Microfluidic Platform. Angewandte Chemie - International Edition, 2020, 59, 11240-11244.	7.2	36
114	Quantum Dots-Based Quantitative and In Situ Multiple Imaging on Ki67 and Cytokeratin to Improve Ki67 Assessment in Breast Cancer. PLoS ONE, 2015, 10, e0122734.	1.1	36
115	Multipole-plasmon-enhanced fÃ¶rster energy transfer between semiconductor quantum dots via dual-resonance nanoantenna effects. Applied Physics Letters, 2010, 96, 043106.	1.5	35
116	Clickable Gold Nanoparticles as the Building Block of Nanobioprobes. Langmuir, 2010, 26, 10171-10176.	1.6	34
117	Controllable synthesis of PbSe nanocubes in aqueous phase using a quasi-biosystem. Journal of Materials Chemistry, 2012, 22, 3713.	6.7	34
118	Cytotoxicity of nucleus-targeting fluorescent gold nanoclusters. Nanoscale, 2014, 6, 13126-13134.	2.8	34
119	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.	4.0	34
120	Assembly-enhanced fluorescence from metal nanoclusters and quantum dots for highly sensitive biosensing. Sensors and Actuators B: Chemical, 2019, 279, 334-341.	4.0	33
121	Synthesis of sub-5 nm Auâ€“Ag alloy nanoparticles using bio-reducing agent in aqueous solution. Journal of Materials Chemistry, 2011, 21, 17080.	6.7	32
122	One-to-one quantum dot-labeled single long DNA probes. Biomaterials, 2011, 32, 5471-5477.	5.7	32
123	Rapid and Quantitative Detection of Avian Influenza A(H7N9) Virions in Complex Matrices Based on Combined Magnetic Capture and Quantum Dot Labeling. Small, 2015, 11, 5280-5288.	5.2	32
124	Singleâ€Particle Tracking Reveals the Sequential Entry Process of the Bunyavirus Severe Fever with Thrombocytopenia Syndrome Virus. Small, 2019, 15, e1803788.	5.2	31
125	Electrochemical Monitoring of Hydrogen Sulfide Release from Single Cells. ChemElectroChem, 2016, 3, 1998-2002.	1.7	30
126	Simultaneous Visualization of Parental and Progeny Viruses by a Capsid-Specific HaloTag Labeling Strategy. ACS Nano, 2016, 10, 1147-1155.	7.3	30

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127	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.	3.2	30
128	Glucose-functionalized near-infrared Ag₂Se quantum dots with renal excretion ability for long-term in vivo tumor imaging. Journal of Materials Chemistry B, 2019, 7, 5782-5788.	2.9	30
129	Droplet-based microreactor for synthesis of water-soluble Ag₂S quantum dots. Nanotechnology, 2015, 26, 275701.	1.3	28
130	Metal-enhanced fluorescence of gold nanoclusters as a sensing platform for multi-component detection. Sensors and Actuators B: Chemical, 2019, 282, 650-658.	4.0	28
131	Phase Separation and Cytotoxicity of Tau are Modulated by Protein Disulfide Isomerase and S-nitrosylation of this Molecular Chaperone. Journal of Molecular Biology, 2020, 432, 2141-2163.	2.0	28
132	Dissecting the Factors Affecting the Fluorescence Stability of Quantum Dots in Live Cells. ACS Applied Materials & Interfaces, 2016, 8, 8401-8408.	4.0	27
133	Effect of POE-g-GMA on mechanical, rheological and thermal properties of poly(lactic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 5	1.7	27
134	Quantitatively Switchable pH-Sensitive Photoluminescence of Carbon Nanodots. Journal of Physical Chemistry Letters, 2021, 12, 2727-2735.	2.1	27
135	One-Step Monitoring of Multiple Enterovirus 71 Infection-Related MicroRNAs Using Coreâ€“Satellite Structure of Magnetic Nanobeads and Multicolor Quantum Dots. Analytical Chemistry, 2020, 92, 830-837.	3.2	26
136	Quantum dot-based quantitative immunofluorescence detection and spectrum analysis of epidermal growth factor receptor in breast cancer tissue arrays. International Journal of Nanomedicine, 2011, 6, 2265.	3.3	25
137	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.	5.2	24
138	Biometallizationâ€Based Electrochemical Magnetoimmunosensing Strategy for Avian Influenza A (H7N9) Virus Particle Detection. Chemistry - an Asian Journal, 2015, 10, 1387-1393.	1.7	24
139	Lipid-Specific Labeling of Enveloped Viruses with Quantum Dots for Single-Virus Tracking. MBio, 2020, 11, .	1.8	24
140	Ag₂Te Quantum Dots as Contrast Agents for Near-Infrared Fluorescence and Computed Tomography Imaging. ACS Applied Nano Materials, 2020, 3, 6071-6077.	2.4	24
141	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.	3.2	23
142	Transformation of Viral Light Particles into Near-Infrared Fluorescence Quantum Dot-Labeled Active Tumor-Targeting Nanovectors for Drug Delivery. Nano Letters, 2019, 19, 7035-7042.	4.5	23
143	Kineticsâ€Controlled Formation of Gold Clusters Using a Quasiâ€Biological System. Advanced Functional Materials, 2010, 20, 3673-3677.	7.8	22
144	Control of magnetic field distribution by using nickel powder@PDMS pillars in microchannels. RSC Advances, 2014, 4, 17660-17666.	1.7	22

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145	A fluorescent aptasensor using double-stranded DNA/graphene oxide as the indicator probe. Biosensors and Bioelectronics, 2016, 78, 431-437.	5.3	22
146	Uncovering the Rab5â€Independent Autophagic Trafficking of Influenza A Virus by Quantumâ€Dotâ€Based Singleâ€Virus Tracking. Small, 2018, 14, e1702841.	5.2	22
147	Cellular-Beacon-Mediated Counting for the Ultrasensitive Detection of Ebola Virus on an Integrated Micromagnetic Platform. Analytical Chemistry, 2018, 90, 7310-7317.	3.2	22
148	Visualization of Vaccine Dynamics with Quantum Dots for Immunotherapy. Angewandte Chemie - International Edition, 2021, 60, 24275-24283.	7.2	22
149	Magnetic Chip Based Extracorporeal Circulation: A New Tool for Circulating Tumor Cell in Vivo Detection. Analytical Chemistry, 2019, 91, 15260-15266.	3.2	21
150	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.	3.2	21
151	Precision photothermal therapy and photoacoustic imaging by in situ activatable thermoplasmonics. Chemical Science, 2021, 12, 10097-10105.	3.7	21
152	Intermediate-dominated controllable biomimetic synthesis of gold nanoparticles in a quasi-biological system. Nanoscale, 2010, 2, 2120.	2.8	20
153	Harnessing Intracellular Biochemical Pathways for In Vitro Synthesis of Designer Tellurium Nanorods. Small, 2015, 11, 5416-5422.	5.2	19
154	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.	1.3	19
155	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.	2.2	19
156	Neutralizing Mutations Significantly Inhibit Amyloid Formation by Human Prion Protein and Decrease Its Cytotoxicity. Journal of Molecular Biology, 2020, 432, 828-844.	2.0	19
157	CdZnSeS quantum dots condensed with ordered mesoporous carbon for high-sensitive electrochemiluminescence detection of hydrogen peroxide in live cells. Electrochimica Acta, 2020, 362, 137107.	2.6	19
158	PEG-interspersed nitrilotriacetic acid-functionalized quantum dots for site-specific labeling of prion proteins expressed on cell surfaces. Biomaterials, 2010, 31, 8362-8370.	5.7	18
159	Sensitive multiplexed DNA detection using silica nanoparticles as the target capturing platform. Talanta, 2014, 128, 263-267.	2.9	18
160	Revealing the biodistribution and clearance of Ag₂Se near-infrared quantum dots in mice. New Journal of Chemistry, 2017, 41, 12721-12725.	1.4	18
161	A High Throughput Micro-Chamber Array Device for Single Cell Clonal Cultivation and Tumor Heterogeneity Analysis. Scientific Reports, 2015, 5, 11937.	1.6	17
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