

Wenwan Zhong

List of Publications by Year in descending order

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97
papers

4,748
citations

126907

33
h-index

102487

66
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97
all docs

97
docs citations

97
times ranked

7822
citing authors

#	ARTICLE	IF	CITATIONS
1	Breast-cancer-secreted miR-122 reprograms glucose metabolism in premetastatic niche to promote metastasis. <i>Nature Cell Biology</i> , 2015, 17, 183-194.	10.3	895
2	The helicase DDX41 recognizes the bacterial secondary messengers cyclic di-GMP and cyclic di-AMP to activate a type I interferon immune response. <i>Nature Immunology</i> , 2012, 13, 1155-1161.	14.5	363
3	Nanomaterials in fluorescence-based biosensing. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 47-59.	3.7	223
4	Enhancement of the Intrinsic Peroxidase-Like Activity of Graphitic Carbon Nitride Nanosheets by ssDNAs and Its Application for Detection of Exosomes. <i>Analytical Chemistry</i> , 2017, 89, 12327-12333.	6.5	208
5	Exponential Strand-Displacement Amplification for Detection of MicroRNAs. <i>Analytical Chemistry</i> , 2014, 86, 336-339.	6.5	160
6	Self-Assembled TiO ₂ Nanocrystal Clusters for Selective Enrichment of Intact Phosphorylated Proteins. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 1862-1866.	13.8	134
7	A Single Extracellular Vesicle (EV) Flow Cytometry Approach to Reveal EV Heterogeneity. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15675-15680.	13.8	107
8	Two-Photon Graphene Oxide/Aptamer Nanosensing Conjugate for <i>In Vitro</i> or <i>In Vivo</i> Molecular Probing. <i>Analytical Chemistry</i> , 2014, 86, 3548-3554.	6.5	101
9	<i>Pseudomonas syringae</i> Type III Effector HopZ1 Targets a Host Enzyme to Suppress Isoflavone Biosynthesis and Promote Infection in Soybean. <i>Cell Host and Microbe</i> , 2011, 9, 177-186.	11.0	99
10	Recent Advances in Design of Fluorescence-Based Assays for High-Throughput Screening. <i>Analytical Chemistry</i> , 2019, 91, 482-504.	6.5	99
11	Nano Aptasensor for Protective Antigen Toxin of Anthrax. <i>Analytical Chemistry</i> , 2010, 82, 2042-2047.	6.5	95
12	Size and Surface Functionalization of Iron Oxide Nanoparticles Influence the Composition and Dynamic Nature of Their Protein Corona. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 15412-15419.	8.0	88
13	Probing Nanoparticle-Protein Interaction by Capillary Electrophoresis. <i>Analytical Chemistry</i> , 2010, 82, 7460-7466.	6.5	82
14	Detection of MicroRNA by Fluorescence Amplification Based on Cation-Exchange in Nanocrystals. <i>Analytical Chemistry</i> , 2009, 81, 9723-9729.	6.5	78
15	Stand-Alone Rolling Circle Amplification Combined with Capillary Electrophoresis for Specific Detection of Small RNA. <i>Analytical Chemistry</i> , 2009, 81, 4906-4913.	6.5	68
16	Self-Aggregating Deep Cavitand Acts as a Fluorescence Displacement Sensor for Lysine Methylation. <i>Journal of the American Chemical Society</i> , 2016, 138, 10746-10749.	13.7	68
17	Alkyne-DNA-Functionalized Alloyed Au/Ag Nanospheres for Ratiometric Surface-Enhanced Raman Scattering Imaging Assay of Endonuclease Activity in Live Cells. <i>Analytical Chemistry</i> , 2018, 90, 3898-3905.	6.5	65
18	Highly Efficient Exosome Isolation and Protein Analysis by an Integrated Nanomaterial-Based Platform. <i>Analytical Chemistry</i> , 2018, 90, 2787-2795.	6.5	65

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19	Prediction of protein corona on nanomaterials by machine learning using novel descriptors. <i>NanoImpact</i> , 2020, 17, 100207.	4.5	62
20	Fluorescence Signal Amplification by Cation Exchange in Ionic Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1588-1591.	13.8	60
21	Site-Selective Sensing of Histone Methylation Enzyme Activity via an Arrayed Supramolecular Tandem Assay. <i>Journal of the American Chemical Society</i> , 2017, 139, 10964-10967.	13.7	57
22	Dissociation-Based Screening of Nanoparticle-Protein Interaction via Flow Field-Flow Fractionation. <i>Analytical Chemistry</i> , 2013, 85, 7494-7501.	6.5	54
23	Distribution Profiling of Circulating MicroRNAs in Serum. <i>Analytical Chemistry</i> , 2014, 86, 9343-9349.	6.5	54
24	Typing of Multiple Single-Nucleotide Polymorphisms by a Microsphere-Based Rolling Circle Amplification Assay. <i>Analytical Chemistry</i> , 2007, 79, 9030-9038.	6.5	53
25	Cobalt oxyhydroxide nanoflakes with intrinsic peroxidase catalytic activity and their application to serum glucose detection. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 4225-4232.	3.7	53
26	Separation of actinides at ultra-trace level from urine matrix using extraction chromatography-inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2004, 19, 966.	3.0	50
27	Selective discrimination and classification of G-quadruplex structures with a host-guest sensing array. <i>Nature Chemistry</i> , 2021, 13, 488-495.	13.6	48
28	Multiplexed Flow Cytometric Immunoassay for Influenza Virus Detection and Differentiation. <i>Analytical Chemistry</i> , 2005, 77, 7673-7678.	6.5	43
29	Analysis of lipid adsorption on nanoparticles by nanoflow liquid chromatography-tandem mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 6155-6164.	3.7	43
30	Selective Sensing of Phosphorylated Peptides and Monitoring Kinase and Phosphatase Activity with a Supramolecular Tandem Assay. <i>Journal of the American Chemical Society</i> , 2018, 140, 13869-13877.	13.7	39
31	Cation Exchange in ZnSe Nanocrystals for Signal Amplification in Bioassays. <i>Analytical Chemistry</i> , 2011, 83, 402-408.	6.5	36
32	Combinatorial enantiomeric separation of diverse compounds using capillary array electrophoresis. <i>Electrophoresis</i> , 2002, 23, 2996-3005.	2.4	35
33	Cancer-cell-secreted extracellular vesicles suppress insulin secretion through miR-122 to impair systemic glucose homeostasis and contribute to tumour growth. <i>Nature Cell Biology</i> , 2022, 24, 954-967.	10.3	35
34	Combining DNAzyme with single-walled carbon nanotubes for detection of Pb(II) in water. <i>Analyst</i> , 2011, 136, 764-768.	3.5	34
35	Rapid Enrichment and Sensitive Detection of Multiple Metal Ions Enabled by Macroporous Graphene Foam. <i>Analytical Chemistry</i> , 2017, 89, 11758-11764.	6.5	34
36	Rapid biosensor development using plant hormone receptors as reprogrammable scaffolds. <i>Nature Biotechnology</i> , 2022, 40, 1855-1861.	17.5	34

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37	Selective Heavy Element Sensing with a Simple Host-Guest Fluorescent Array. <i>Analytical Chemistry</i> , 2017, 89, 11113-11121.	6.5	33
38	Impact of carrier fluid composition on recovery of nanoparticles and proteins in flow field flow fractionation. <i>Journal of Chromatography A</i> , 2012, 1264, 72-79.	3.7	32
39	ZrO ₂ Nanofiber as a Versatile Tool for Protein Analysis. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 26414-26420.	8.0	32
40	Lipid and protein corona of food-grade TiO ₂ nanoparticles in simulated gastrointestinal digestion. <i>NanoImpact</i> , 2020, 20, 100272.	4.5	32
41	Recent (2018-2020) development in capillary electrophoresis. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 115-130.	3.7	31
42	Machine Learning Aids Classification and Discrimination of Noncanonical DNA Folding Motifs by an Arrayed Host:Guest Sensing System. <i>Journal of the American Chemical Society</i> , 2021, 143, 12791-12799.	13.7	31
43	Probing and quantifying DNA-protein interactions with asymmetrical flow field-flow fractionation. <i>Journal of Chromatography A</i> , 2014, 1358, 217-224.	3.7	30
44	Site selective reading of epigenetic markers by a dual-mode synthetic receptor array. <i>Chemical Science</i> , 2017, 8, 3960-3970.	7.4	30
45	Separation of Methylated Histone Peptides via Host-Assisted Capillary Electrophoresis. <i>Analytical Chemistry</i> , 2018, 90, 1881-1888.	6.5	29
46	A novel AgNP/DNA/TPdye conjugate-based two-photon nanoprobe for GSH imaging in cell apoptosis of cancer tissue. <i>Chemical Communications</i> , 2015, 51, 16810-16812.	4.1	28
47	Oxidation Reactions Mediated by Single-Walled Carbon Nanotubes in Aqueous Solution. <i>Environmental Science & Technology</i> , 2010, 44, 6954-6958.	10.0	27
48	Detection of Femtomolar Proteins by Nonfluorescent ZnS Nanocrystal Clusters. <i>Analytical Chemistry</i> , 2012, 84, 1645-1652.	6.5	25
49	Enhanced enzyme activity through electron transfer between single-walled carbon nanotubes and horseradish peroxidase. <i>Carbon</i> , 2012, 50, 1303-1310.	10.3	23
50	Fluorescamine Labeling for Assessment of Protein Conformational Change and Binding Affinity in Protein-Nanoparticle Interaction. <i>Analytical Chemistry</i> , 2017, 89, 12160-12167.	6.5	23
51	Multiplexed on-column protein digestion and capillary electrophoresis for high-throughput comprehensive peptide mapping. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2002, 782, 331-341.	2.3	22
52	High-Throughput Profiling of Nanoparticle-Protein Interactions by Fluorescamine Labeling. <i>Analytical Chemistry</i> , 2015, 87, 2213-2219.	6.5	22
53	Rapid Enrichment and Detection of Extracellular Vesicles Enabled by CuS-Enclosed Microgels. <i>Analytical Chemistry</i> , 2019, 91, 15951-15958.	6.5	22
54	Tagging the rolling circle products with nanocrystal clusters for cascade signal increase in the detection of miRNA. <i>Analyst</i> , 2013, 138, 3121.	3.5	21

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55	Aptamer-protein binding detected by asymmetric flow field flow fractionation. <i>Journal of Chromatography A</i> , 2013, 1295, 107-113.	3.7	20
56	Selective sensing of THC and related metabolites in biofluids by host:guest arrays. <i>Chemical Communications</i> , 2020, 56, 4352-4355.	4.1	19
57	Asymmetrical Flow Field Flow Fractionation Coupled to Nanoparticle Tracking Analysis for Rapid Online Characterization of Nanomaterials. <i>Analytical Chemistry</i> , 2020, 92, 7071-7078.	6.5	19
58	Separation of miRNA and its methylation products by capillary electrophoresis. <i>Journal of Chromatography A</i> , 2008, 1202, 220-223.	3.7	18
59	Analysis of circulating non-coding RNAs in a non-invasive and cost-effective manner. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 117, 242-262.	11.4	18
60	Calibration-free analysis of surface proteins on single extracellular vesicles enabled by DNA nanostructure. <i>Biosensors and Bioelectronics</i> , 2021, 192, 113502.	10.1	18
61	Extraction of microRNAs from biological matrices with titanium dioxide nanofibers. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 1053-1060.	3.7	17
62	Multiplexed capillary electrophoresis for DNA sequencing with ultra violet absorption detection. <i>Journal of Chromatography A</i> , 2002, 960, 229-239.	3.7	16
63	CE combined with rolling circle amplification for sensitive DNA detection. <i>Electrophoresis</i> , 2008, 29, 424-432.	2.4	15
64	Multiplexed Affinity-Based Protein Complex Purification. <i>Analytical Chemistry</i> , 2008, 80, 7068-7074.	6.5	15
65	Exploration of Possible Binding Sites of Nanoparticles on Protein by Cross-Linking Chemistry Coupled with Mass Spectrometry. <i>Analytical Chemistry</i> , 2011, 83, 6929-6934.	6.5	15
66	Capillary Electrophoresis-Assisted Identification of Peroxyl Radical Generated by Single-Walled Carbon Nanotubes in a Cell-Free System. <i>Analytical Chemistry</i> , 2009, 81, 5510-5516.	6.5	14
67	Advances in field-flow fractionation for the analysis of biomolecules: instrument design and hyphenation. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 1151-1158.	3.7	13
68	Anionic deep cavities enable the adhesion of unmodified proteins at a membrane bilayer. <i>Soft Matter</i> , 2014, 10, 9651-9656.	2.7	13
69	A DNA aptamer for binding and inhibition of DNA methyltransferase 1. <i>Nucleic Acids Research</i> , 2019, 47, 11527-11537.	14.5	13
70	High-Throughput Analysis of Total RNA Expression Profiles by Capillary Gel Electrophoresis. <i>Analytical Chemistry</i> , 2003, 75, 4415-4422.	6.5	12
71	Laser ablation and ionization time-of-flight mass spectrometer with orthogonal sample introduction and axial field rf-only quadrupole cooling. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2006, 61, 220-224.	2.9	12
72	Protein binding for detection of small changes on a nanoparticle surface. <i>Analyst, The</i> , 2014, 139, 1364-1371.	3.5	12

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73	Selective Array-Based Sensing of Anabolic Steroids in Aqueous Solution by Host-Guest Reporter Complexes. <i>Chemistry - A European Journal</i> , 2019, 25, 1740-1745.	3.3	12
74	A two-dimensional suspension array system by coupling field flow fractionation to flow cytometry. <i>Journal of Chromatography A</i> , 2008, 1183, 143-149.	3.7	11
75	Photochemical Bionanoreactor for Efficient Visible-Light-Driven in Vitro Drug Metabolism. <i>Analytical Chemistry</i> , 2017, 89, 7365-7372.	6.5	11
76	Encapsulation of ionic nanoparticles produces reactive oxygen species (ROS)-responsive microgel useful for molecular detection. <i>Chemical Communications</i> , 2018, 54, 4329-4332.	4.1	11
77	Combining Excellent Selectivity with Broad Target Scope: Biosensing with Arrayed Deep Cavitand Hosts. <i>Accounts of Chemical Research</i> , 2022, 55, 1035-1046.	15.6	11
78	Biological Impacts of Reduced Graphene Oxide Affected by Protein Corona Formation. <i>Chemical Research in Toxicology</i> , 2022, 35, 1244-1256.	3.3	11
79	Metal-assisted selective recognition of biothiols by a synthetic receptor array. <i>Chemical Communications</i> , 2018, 54, 13147-13150.	4.1	10
80	A supramolecular sensor array for selective immunoglobulin deficiency analysis. <i>Chemical Communications</i> , 2019, 55, 11563-11566.	4.1	10
81	Mapping Molecular Structure of Protein Locating on Nanoparticles with Limited Proteolysis. <i>Analytical Chemistry</i> , 2019, 91, 4204-4212.	6.5	10
82	Physical and chemical template-blocking strategies in the exponential amplification reaction of circulating microRNAs. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 2399-2412.	3.7	10
83	Mechanistic Study on the Reduction of SWCNT-Induced Cytotoxicity by Albumin Coating. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 1244-1251.	2.3	8
84	Sensing of citrulline modifications in histone peptides by deep cavitand hosts. <i>Chemical Communications</i> , 2019, 55, 13259-13262.	4.1	8
85	Monitoring the crosstalk between methylation and phosphorylation on histone peptides with host-assisted capillary electrophoresis. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 6189-6198.	3.7	7
86	Automatic extraction and processing of small RNAs on a multi-well/multi-channel (M&M) chip. <i>Analyst</i> , 2012, 137, 5546-5552.	3.5	6
87	A Single Extracellular Vesicle (EV) Flow Cytometry Approach to Reveal EV Heterogeneity. <i>Angewandte Chemie</i> , 2018, 130, 15901-15906.	2.0	5
88	Enantioselective sensing of insect pheromones in water. <i>Chemical Communications</i> , 2021, 57, 13341-13344.	4.1	4
89	A fluorescence detection scheme for ultra large molecules after gas phase separation. <i>Talanta</i> , 2007, 71, 2126-2128.	5.5	3
90	Applications of Synthetic Receptors in Bioanalysis and Drug Transport. <i>Bioconjugate Chemistry</i> , 2022, 33, 2245-2253.	3.6	3

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91	Analysis of the Distribution Profiles of Circulating MicroRNAs by Asymmetrical Flow Field Flow Fractionation. <i>Methods in Molecular Biology</i> , 2017, 1509, 161-168.	0.9	2
92	Analytical developments in advancing safety in nanotechnology. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 6037-6039.	3.7	1
93	Capillary Electrophoresis of Nucleic Acids at the Single-Cell Level. , 0, , 75-91.		0
94	Carbon Nanotubes: Mechanistic Study on the Reduction of SWCNT-induced Cytotoxicity by Albumin Coating (Part. Part. Syst. Charact. 12/2014). <i>Particle and Particle Systems Characterization</i> , 2014, 31, 1196-1196.	2.3	0
95	Introduction to advanced separation. <i>Analytical Methods</i> , 2021, 13, 4708-4709.	2.7	0
96	Open-Channel Separation Techniques for the Characterization of Nanomaterials and Their Bioconjugates for Drug Delivery Applications. , 2019, , 113-150.		0
97	Extraction of by Titanium Dioxide. <i>Methods in Molecular Biology</i> , 2021, 2170, 117-124.	0.9	0