

Wenwen Chen

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

4,164
citations

109321

35
h-index

114465

63
g-index

75
all docs

75
docs citations

75
times ranked

6079
citing authors

#	ARTICLE	IF	CITATIONS
1	A Highly Sensitive, Dual-Readout Assay Based on Gold Nanoparticles for Organophosphorus and Carbamate Pesticides. <i>Analytical Chemistry</i> , 2012, 84, 4185-4191.	6.5	389
2	Highly Sensitive, Colorimetric Detection of Mercury(II) in Aqueous Media by Quaternary Ammonium Group-Capped Gold Nanoparticles at Room Temperature. <i>Analytical Chemistry</i> , 2010, 82, 9606-9610.	6.5	315
3	Resettable, Multi-Readout Logic Gates Based on Controllably Reversible Aggregation of Gold Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 4103-4107.	13.8	229
4	Nanomaterials for Ultrasensitive Protein Detection. <i>Advanced Materials</i> , 2013, 25, 3802-3819.	21.0	174
5	A Peptide-Based Nanofibrous Hydrogel as a Promising DNA Nanovector for Optimizing the Efficacy of HIV Vaccine. <i>Nano Letters</i> , 2014, 14, 1439-1445.	9.1	157
6	Identification of Bacteria in Water by a Fluorescent Array. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13734-13739.	13.8	149
7	<i>In situ</i> differentiation and generation of functional liver organoids from human iPSCs in a 3D perfusable chip system. <i>Lab on A Chip</i> , 2018, 18, 3606-3616.	6.0	147
8	Engineering human islet organoids from iPSCs using an organ-on-chip platform. <i>Lab on A Chip</i> , 2019, 19, 948-958.	6.0	140
9	Omniphobic ZIF@Hydrogel Membrane by Microfluidic Emulsion Templating Method for Wound Healing. <i>Advanced Functional Materials</i> , 2020, 30, 1909389.	14.9	133
10	A 3D human placenta-on-a-chip model to probe nanoparticle exposure at the placental barrier. <i>Toxicology in Vitro</i> , 2019, 54, 105-113.	2.4	131
11	MRI-guided and ultrasound-triggered release of NO by advanced nanomedicine. <i>Nanoscale</i> , 2017, 9, 3637-3645.	5.6	124
12	Detection of the nanomolar level of total Cr(III) and Cr(VI) by functionalized gold nanoparticles and a smartphone with the assistance of theoretical calculation models. <i>Nanoscale</i> , 2015, 7, 2042-2049.	5.6	113
13	Structural Engineering Rationales of Gold Nanoparticles for Cancer Theranostics. <i>Advanced Materials</i> , 2016, 28, 8567-8585.	21.0	111
14	SARS-CoV-2 induced intestinal responses with a biomimetic human gut-on-chip. <i>Science Bulletin</i> , 2021, 66, 783-793.	9.0	91
15	A Highly Sensitive Gold Nanoparticle-Based Assay for Acetylcholinesterase in Cerebrospinal Fluid of Transgenic Mice with Alzheimer's Disease. <i>Advanced Healthcare Materials</i> , 2012, 1, 90-95.	7.6	88
16	Nanocrystalline Cellulose-Assisted Generation of Silver Nanoparticles for Nonenzymatic Glucose Detection and Antibacterial Agent. <i>Biomacromolecules</i> , 2016, 17, 2472-2478.	5.4	83
17	A cross-talk between epithelium and endothelium mediates human alveolar capillary injury during SARS-CoV-2 infection. <i>Cell Death and Disease</i> , 2020, 11, 1042.	6.3	83
18	Quantification of Proteins by Functionalized Gold Nanoparticles Using Click Chemistry. <i>Analytical Chemistry</i> , 2012, 84, 4267-4270.	6.5	82

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19	Analysis of Influenza Virus Receptor Specificity Using Glycan-Functionalized Gold Nanoparticles. <i>ACS Nano</i> , 2014, 8, 4600-4607.	14.6	66
20	Enzymatic Assay for Cu(II) with Horseradish Peroxidase and Its Application in Colorimetric Logic Gate. <i>Analytical Chemistry</i> , 2013, 85, 7029-7032.	6.5	65
21	One-Step Generation of Core-Shell Gelatin Methacrylate (GelMA) Microgels Using a Droplet Microfluidic System. <i>Advanced Materials Technologies</i> , 2019, 4, 1800632.	5.8	62
22	N-Heterocyclic molecule-capped gold nanoparticles as effective antibiotics against multi-drug resistant bacteria. <i>Nanoscale</i> , 2016, 8, 13223-13227.	5.6	60
23	hiPSC-derived multi-organoids-on-chip system for safety assessment of antidepressant drugs. <i>Lab on a Chip</i> , 2021, 21, 571-581.	6.0	56
24	Modeling Human Nonalcoholic Fatty Liver Disease (NAFLD) with an Organoids-on-a-Chip System. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 5734-5743.	5.2	50
25	Assessment of Air Pollutant PM2.5 Pulmonary Exposure Using a 3D Lung-on-Chip Model. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 3081-3090.	5.2	50
26	Detection and differentiation of influenza viruses with glycan-functionalized gold nanoparticles. <i>Biosensors and Bioelectronics</i> , 2017, 91, 46-52.	10.1	49
27	Microengineered Multi-Organoid System from hiPSCs to Recapitulate Human Liver-Islet Axis in Normal and Type 2 Diabetes. <i>Advanced Science</i> , 2022, 9, e2103495.	11.2	49
28	Reversing Bacterial Resistance to Gold Nanoparticles by Size Modulation. <i>Nano Letters</i> , 2021, 21, 1992-2000.	9.1	46
29	Recyclable Colorimetric Detection of Trivalent Cations in Aqueous Media Using Zwitterionic Gold Nanoparticles. <i>Analytical Chemistry</i> , 2016, 88, 4140-4146.	6.5	43
30	FRET on lateral flow test strip to enhance sensitivity for detecting cancer biomarker. <i>Talanta</i> , 2018, 176, 444-449.	5.5	43
31	Universal Coating from Electrostatic Self-Assembly to Prevent Multidrug-Resistant Bacterial Colonization on Medical Devices and Solid Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 21181-21189.	8.0	42
32	One-step synthesis of composite hydrogel capsules to support liver organoid generation from hiPSCs. <i>Biomaterials Science</i> , 2020, 8, 5476-5488.	5.4	41
33	Rapid Detection of Copper in Biological Systems Using Click Chemistry. <i>Small</i> , 2018, 14, e1703857.	10.0	39
34	Albumin Broadens the Antibacterial Capabilities of Nonantibiotic Small Molecule-Capped Gold Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 45381-45389.	8.0	39
35	One-Step Generation of Aqueous-Droplet-Filled Hydrogel Fibers as Organoid Carriers Using an All-in-Water Microfluidic System. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 3199-3208.	8.0	39
36	Barcoded Microchips for Biomolecular Assays. <i>Analytical Chemistry</i> , 2015, 87, 900-906.	6.5	34

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37	Simple and fast isolation of circulating exosomes with a chitosan modified shuttle flow microchip for breast cancer diagnosis. <i>Lab on A Chip</i> , 2021, 21, 1759-1770.	6.0	33
38	Hierarchically Anisotropic Networks to Decouple Mechanical and Ionic Properties for High-Performance Quasi-Solid Thermocells. <i>ACS Nano</i> , 2022, 16, 8347-8357.	14.6	29
39	Nanocrystalline cellulose mediated seed-growth for ultra-robust colorimetric detection of hydrogen sulfide. <i>Nanoscale</i> , 2017, 9, 9811-9817.	5.6	28
40	Recent Advances in SnSe Nanostructures beyond Thermoelectricity. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	28
41	Microfluidics-Implemented Biochemical Assays: From the Perspective of Readout. <i>Small</i> , 2020, 16, e1903388.	10.0	27
42	Composite Film with Antibacterial Gold Nanoparticles and Silk Fibroin for Treating Multidrug-Resistant <i>E. coli</i> -Infected Wounds. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 1827-1835.	5.2	27
43	Flexible and Highly Photosensitive Electrolyte-Gated Organic Transistors with Ionogel/Silver Nanowire Membranes. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 18134-18141.	8.0	22
44	Colorimetric detection of Al(III) in vermicelli samples based on ionic liquid group coated gold nanoparticles. <i>RSC Advances</i> , 2015, 5, 62260-62264.	3.6	21
45	A microfluidic strategy to fabricate ultra-thin polyelectrolyte hollow microfibers as 3D cellular carriers. <i>Materials Science and Engineering C</i> , 2019, 104, 109705.	7.3	19
46	Breast Cancer Subtype Classification Using 4-Plex Droplet Digital PCR. <i>Clinical Chemistry</i> , 2019, 65, 1051-1059.	3.2	19
47	Recent progress in the application of microfluidic systems and gold nanoparticles in immunoassays. <i>Science China Chemistry</i> , 2011, 54, 1227-1232.	8.2	18
48	Simple fabrication of inner chitosan-coated alginate hollow microfiber with higher stability. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019, 107, 2527-2536.	3.4	18
49	Mixing-to-Answer Iodide Sensing with Commercial Chemicals. <i>Analytical Chemistry</i> , 2018, 90, 8276-8282.	6.5	17
50	Integrated Microfluidic Device for Enrichment and Identification of Circulating Tumor Cells from the Blood of Patients with Colorectal Cancer. <i>Disease Markers</i> , 2019, 2019, 1-9.	1.3	13
51	Chemiluminescence immunoassay for sensing lipoprotein-associated phospholipase A2 in cardiovascular risk evaluation. <i>Clinica Chimica Acta</i> , 2019, 488, 143-149.	1.1	13
52	Si, N-codoped carbon dots: preparation and application in iron overload diagnosis. <i>Journal of Materials Science</i> , 2019, 54, 4297-4305.	3.7	13
53	2D AuPd alloy nanosheets: one-step synthesis as imaging-guided photonic nano-antibiotics. <i>Nanoscale Advances</i> , 2020, 2, 3550-3560.	4.6	13
54	Flexible Generation of Multi-Aqueous Core Hydrogel Capsules Using Microfluidic Aqueous Two-Phase System. <i>Advanced Materials Technologies</i> , 2020, 5, 2000045.	5.8	13

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55	Advances of Exosomal miRNAs in Breast Cancer Progression and Diagnosis. <i>Diagnostics</i> , 2021, 11, 2151.	2.6	12
56	Malignant Melanoma-Derived Exosomes Induce Endothelial Damage and Glial Activation on a Human BBB Chip Model. <i>Biosensors</i> , 2022, 12, 89.	4.7	12
57	Facile synthesis of hierarchical SnSe nanosheetsâ€“hydrogel evaporators for sustainable solar-powered desalination. <i>Journal of Materials Chemistry A</i> , 2022, 10, 10672-10681.	10.3	12
58	Brain organoid-on-chip system to study the effects of breast cancer derived exosomes on the neurodevelopment of brain. <i>Cell Regeneration</i> , 2022, 11, 7.	2.6	11
59	Room-Temperature Harvesting Oxidase-Mimicking Enzymes with Exogenous ROS Generation in One Step. <i>Inorganic Chemistry</i> , 2022, 61, 1169-1177.	4.0	9
60	Cu ²⁺ Detection with Gold Nanoparticles by Patterning Colorimetric Strips on a Filter Membrane Assembled in a Microfluidic Chip. <i>Chinese Journal of Chemistry</i> , 2012, 30, 2047-2051.	4.9	7
61	An organic water-gated ambipolar transistor with a bulk heterojunction active layer for stable and tunable photodetection. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	7
62	Modeling Pharmacokinetic Profiles for Assessment of Anti-Cancer Drug on a Microfluidic System. <i>Micromachines</i> , 2020, 11, 551.	2.9	7
63	Exploration of Exosomal miRNAs from Serum and Synovial Fluid in Arthritis Patients. <i>Diagnostics</i> , 2022, 12, 239.	2.6	7
64	A green and efficient strategy facilitates continuous solar-induced steam generation based on tea-assisted synthesis of gold nanoflowers. <i>Nano Research</i> , 2022, 15, 6705-6712.	10.4	7
65	Blocking-Free ELISA Using a Gold Nanoparticle Layer Coated Commercial Microwell Plate. <i>Sensors</i> , 2018, 18, 3537.	3.8	6
66	Early diagnosis of myocardial infarction in clinic through CK-MB detection using magnetic separation integrated with chemiluminescence. <i>Analytical Methods</i> , 2016, 8, 2718-2722.	2.7	3
67	A Portable Device for Simple Exosome Separation from Biological Samples. <i>Micromachines</i> , 2021, 12, 1182.	2.9	2
68	Recent research progress of nanocellulose crystal and its composites with polymers. <i>Chinese Science Bulletin</i> , 2013, 58, 2385-2392.	0.7	2
69	High-throughput blood sample preparation for single nucleotide polymorphism genotyping in less than 25â€“ min. <i>Talanta</i> , 2019, 191, 119-125.	5.5	0