

Si-Yang Zheng

List of Publications by Year in descending order

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59
papers

2,713
citations

218677

26
h-index

189892

50
g-index

59
all docs

59
docs citations

59
times ranked

4669
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Assembly of Extracellular Vesicle-like Metal-Organic Framework Nanoparticles for Protection and Intracellular Delivery of Biofunctional Proteins. <i>Journal of the American Chemical Society</i> , 2018, 140, 7282-7291.	13.7	277
2	Rapid magnetic isolation of extracellular vesicles via lipid-based nanoprobe. <i>Nature Biomedical Engineering</i> , 2017, 1, .	22.5	188
3	Aptamer-Conjugated Extracellular Nanovesicles for Targeted Drug Delivery. <i>Cancer Research</i> , 2018, 78, 798-808.	0.9	181
4	Size-based separation methods of circulating tumor cells. <i>Advanced Drug Delivery Reviews</i> , 2018, 125, 3-20.	13.7	163
5	Circulating tumor cells: Advances in isolation and analysis, and challenges for clinical applications. , 2014, 141, 209-221.		162
6	A Spontaneous 3D Bone-On-a-Chip for Bone Metastasis Study of Breast Cancer Cells. <i>Small</i> , 2018, 14, e1702787.	10.0	138
7	Mitochondria-Targeting Polydopamine Nanoparticles To Deliver Doxorubicin for Overcoming Drug Resistance. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 16793-16802.	8.0	135
8	Circulating Tumor Cell Enrichment Based on Physical Properties. <i>Journal of the Association for Laboratory Automation</i> , 2013, 18, 455-468.	2.8	126
9	Flexible Micro Spring Array Device for High-Throughput Enrichment of Viable Circulating Tumor Cells. <i>Clinical Chemistry</i> , 2014, 60, 323-333.	3.2	119
10	Separable Bilayer Microfiltration Device for Viable Label-free Enrichment of Circulating Tumour Cells. <i>Scientific Reports</i> , 2014, 4, 7392.	3.3	91
11	Construction of a high-performance magnetic enzyme nanosystem for rapid tryptic digestion. <i>Scientific Reports</i> , 2014, 4, 6947.	3.3	75
12	Tunable and label-free virus enrichment for ultrasensitive virus detection using carbon nanotube arrays. <i>Science Advances</i> , 2016, 2, e1601026.	10.3	73
13	Smartphone-Based Point-of-Care Microfluidic Platform Fabricated with a ZnO Nanorod Template for Colorimetric Virus Detection. <i>ACS Sensors</i> , 2019, 4, 3298-3307.	7.8	73
14	Facile Synthesis of Magnetic Mesoporous Hollow Carbon Microspheres for Rapid Capture of Low-Concentration Peptides. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12719-12728.	8.0	71
15	Graphene-Templated Synthesis of Magnetic Metal Organic Framework Nanocomposites for Selective Enrichment of Biomolecules. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 10234-10242.	8.0	66
16	A Nanostructured Microfluidic Immunoassay Platform for Highly Sensitive Infectious Pathogen Detection. <i>Small</i> , 2017, 13, 1700425.	10.0	66
17	Circulating tumor cell isolation during resection of colorectal cancer lung and liver metastases: a prospective trial with different detection techniques. <i>Cancer Biology and Therapy</i> , 2015, 16, 699-708.	3.4	55
18	Highly sensitive DNA detection using cascade amplification strategy based on hybridization chain reaction and enzyme-induced metallization. <i>Biosensors and Bioelectronics</i> , 2015, 66, 520-526.	10.1	53

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19	Microfluidic device and system for point-of-care blood coagulation measurement based on electrical impedance sensing. <i>Sensors and Actuators B: Chemical</i> , 2013, 180, 21-27.	7.8	52
20	An implantable Fabry-Pérot pressure sensor fabricated on left ventricular assist device for heart failure. <i>Biomedical Microdevices</i> , 2012, 14, 235-245.	2.8	32
21	The Role of Extracellular Vesicles in the Pathogenesis and Treatment of Autoimmune Disorders. <i>Frontiers in Immunology</i> , 2021, 12, 566299.	4.8	32
22	Label-Free Virus Capture and Release by a Microfluidic Device Integrated with Porous Silicon Nanowire Forest. <i>Small</i> , 2017, 13, 1603135.	10.0	30
23	Preoccupation of Empty Carriers Decreases Endo-/Lysosome Escape and Reduces the Protein Delivery Efficiency of Mesoporous Silica Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 5340-5347.	8.0	29
24	Enrichment of extracellular vesicles with lipid nanoprobe functionalized nanostructured silica. <i>Lab on A Chip</i> , 2019, 19, 2346-2355.	6.0	29
25	Preparation of magnetic graphene composites with hierarchical structure for selective capture of phosphopeptides. <i>Journal of Materials Chemistry B</i> , 2014, 2, 4711.	5.8	28
26	On-Demand One-Step Synthesis of Monodisperse Functional Polymeric Microspheres with Droplet Microfluidics. <i>Langmuir</i> , 2015, 31, 3982-3992.	3.5	28
27	Synthesis of Self-Assembled Multifunctional Nanocomposite Catalysts with Highly Stabilized Reactivity and Magnetic Recyclability. <i>Scientific Reports</i> , 2016, 6, 25459.	3.3	28
28	A multiplexed marker-based algorithm for diagnosis of carcinoma of unknown primary using circulating tumor cells. <i>Oncotarget</i> , 2016, 7, 3662-3676.	1.8	27
29	Ascertaining the Number of Essential Thiol Groups for the Folding of Creatine Kinase. <i>Biochemical and Biophysical Research Communications</i> , 1996, 221, 174-180.	2.1	26
30	Extracellular Vesicles as Potential Biomarkers for Early Detection and Diagnosis of Pancreatic Cancer. <i>Biomedicines</i> , 2020, 8, 581.	3.2	26
31	Microfluidics in Single-Cell Virology: Technologies and Applications. <i>Trends in Biotechnology</i> , 2020, 38, 1360-1372.	9.3	24
32	Genomic characterization of a turkey reovirus field strain by Next-Generation Sequencing. <i>Infection, Genetics and Evolution</i> , 2015, 32, 313-321.	2.3	21
33	Vertically Aligned Carbon Nanotubes as a Unique Material for Biomedical Applications. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 6287-6306.	8.0	21
34	Evidence for the existence of an unfolding intermediate state for aminoacylase during denaturation in guanidine solutions. <i>BBA - Proteins and Proteomics</i> , 1999, 1430, 39-45.	2.1	19
35	Self-Assembly of Smart Multifunctional Hybrid Compartments with Programmable Bioactivity. <i>Chemistry of Materials</i> , 2017, 29, 2081-2089.	6.7	16
36	A Combinatory Strategy for Detection of Live CTCs Using Microfiltration and a New Telomerase-Selective Adenovirus. <i>Molecular Cancer Therapeutics</i> , 2015, 14, 835-843.	4.1	15

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37	Nucleus of Circulating Tumor Cell Determines Its Translocation Through Biomimetic Microconstrictions and Its Physical Enrichment by Microfiltration. <i>Small</i> , 2018, 14, e1802899.	10.0	15
38	Nanostructured microfluidic digestion system for rapid high-performance proteolysis. <i>Lab on A Chip</i> , 2015, 15, 650-654.	6.0	14
39	Point-of-Care Microdevices for Blood Plasma Analysis in Viral Infectious Diseases. <i>Annals of Biomedical Engineering</i> , 2014, 42, 2333-2343.	2.5	13
40	Light-Emitting Transition Metal Dichalcogenide Monolayers under Cellular Digestion. <i>Advanced Materials</i> , 2018, 30, 1703321.	21.0	13
41	Recent advances of emerging microfluidic chips for exosome mediated cancer diagnosis. <i>Smart Materials in Medicine</i> , 2021, 2, 158-171.	6.7	13
42	A carbon nanotube integrated microfluidic device for blood plasma extraction. <i>Scientific Reports</i> , 2018, 8, 13623.	3.3	12
43	Kinetics of irreversible inhibition of yeast alcohol dehydrogenase during modification by 4,4-dithiodipyridine. <i>International Journal of Biological Macromolecules</i> , 1997, 20, 307-313.	7.5	6
44	Magnetically Driven Nanotransporter-Assisted Intracellular Delivery and Autonomous Release of Proteins. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 41096-41104.	8.0	6
45	Evaluating a novel dimensional reduction approach for mechanical fractionation of cells using a tandem flexible micro spring array (tFMSA). <i>Lab on A Chip</i> , 2017, 17, 691-701.	6.0	4
46	An Ultrafast One-Step Quantitative Reverse Transcription-Polymerase Chain Reaction Assay for Detection of SARS-CoV-2. <i>Frontiers in Microbiology</i> , 2021, 12, 749783.	3.5	4
47	A microfluidic device of biodegradable porous silicon nanowires for size based capturing and releasing viruses. , 2015, , .		3
48	Chopper-modulated gas chromatography electroantennography enabled using high-temperature MEMS flow control device. <i>Microsystems and Nanoengineering</i> , 2017, 3, 17062.	7.0	3
49	Microfluidic device with carbon nanotube channel walls for blood plasma extraction. , 2013, , .		2
50	In Situ Caging of Biomolecules in Graphene Hybrids for Light Modulated Bioactivity. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 3361-3371.	8.0	2
51	Enhanced detection of tumour-secreted vesicles. <i>Nature Biomedical Engineering</i> , 2019, 3, 421-422.	22.5	2
52	Affinity-Based Enrichment of Extracellular Vesicles with Lipid Nanoprobes. <i>Methods in Molecular Biology</i> , 2022, 2394, 185-197.	0.9	2
53	Viable circulating tumor cell enrichment by flexible micro spring array. , 2012, 2012, 6269-72.		1
54	Nanomaterial integrated microfluidic devices for virus analysis. , 2015, , .		1

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55	Separable Bilayer Microfiltration Device for Label-Free Enrichment of Viable Circulating Tumor Cells. <i>Methods in Molecular Biology</i> , 2017, 1634, 81-91.	0.9	1
56	Pathogen Detection: A Nanostructured Microfluidic Immunoassay Platform for Highly Sensitive Infectious Pathogen Detection (<i>Small</i> 24/2017). <i>Small</i> , 2017, 13, .	10.0	1
57	Virus Capture: Label-Free Virus Capture and Release by a Microfluidic Device Integrated with Porous Silicon Nanowire Forest (<i>Small</i> 6/2017). <i>Small</i> , 2017, 13, .	10.0	0
58	Zinc oxide nanorod integrated microdevice for multiplex virus detection. , 2017, , .		0
59	Develop Micro/Nano Technologies for Cancer Diagnosis. , 2021, , .		0