

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
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59
all docs

59
docs citations

59
times ranked

4669
citing authors

#	ARTICLE	IF	CITATIONS
1	Vertically Aligned Carbon Nanotubes as a Unique Material for Biomedical Applications. ACS Applied Materials & Interfaces, 2022, 14, 6287-6306.	8.0	21
2	Affinity-Based Enrichment of Extracellular Vesicles with Lipid Nanoprobes. Methods in Molecular Biology, 2022, 2394, 185-197.	0.9	2
3	Develop Micro/Nano Technologies for Cancer Diagnosis. , 2021, , .		0
4	The Role of Extracellular Vesicles in the Pathogenesis and Treatment of Autoimmune Disorders. Frontiers in Immunology, 2021, 12, 566299.	4.8	32
5	Recent advances of emerging microfluidic chips for exosome mediated cancer diagnosis. Smart Materials in Medicine, 2021, 2, 158-171.	6.7	13
6	An Ultrafast One-Step Quantitative Reverse Transcriptionâ€“Polymerase Chain Reaction Assay for Detection of SARS-CoV-2. Frontiers in Microbiology, 2021, 12, 749783.	3.5	4
7	Magnetically Driven Nanotransporter-Assisted Intracellular Delivery and Autonomous Release of Proteins. ACS Applied Materials & Interfaces, 2020, 12, 41096-41104.	8.0	6
8	Extracellular Vesicles as Potential Biomarkers for Early Detection and Diagnosis of Pancreatic Cancer. Biomedicines, 2020, 8, 581.	3.2	26
9	Microfluidics in Single-Cell Virology: Technologies and Applications. Trends in Biotechnology, 2020, 38, 1360-1372.	9.3	24
10	Enrichment of extracellular vesicles with lipid nanoprobe functionalized nanostructured silica. Lab on A Chip, 2019, 19, 2346-2355.	6.0	29
11	Enhanced detection of tumour-secreted vesicles. Nature Biomedical Engineering, 2019, 3, 421-422.	22.5	2
12	Smartphone-Based Point-of-Care Microfluidic Platform Fabricated with a ZnO Nanorod Template for Colorimetric Virus Detection. ACS Sensors, 2019, 4, 3298-3307.	7.8	73
13	A Spontaneous 3D Boneâ€“Onâ€“Chip for Bone Metastasis Study of Breast Cancer Cells. Small, 2018, 14, e1702787.	10.0	138
14	Preoccupation of Empty Carriers Decreases Endo-/Lysosome Escape and Reduces the Protein Delivery Efficiency of Mesoporous Silica Nanoparticles. ACS Applied Materials & Interfaces, 2018, 10, 5340-5347.	8.0	29
15	Size-based separation methods of circulating tumor cells. Advanced Drug Delivery Reviews, 2018, 125, 3-20.	13.7	163
16	Lightâ€“Emitting Transition Metal Dichalcogenide Monolayers under Cellular Digestion. Advanced Materials, 2018, 30, 1703321.	21.0	13
17	In Situ Caging of Biomolecules in Graphene Hybrids for Light Modulated Bioactivity. ACS Applied Materials & Interfaces, 2018, 10, 3361-3371.	8.0	2
18	Aptamer-Conjugated Extracellular Nanovesicles for Targeted Drug Delivery. Cancer Research, 2018, 78, 798-808.	0.9	181

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19	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
20	A carbon nanotube integrated microfluidic device for blood plasma extraction. <i>Scientific Reports</i> , 2018, 8, 13623.	3.3	12
21	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
22	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
23	Self-Assembly of Smart Multifunctional Hybrid Compartments with Programmable Bioactivity. <i>Chemistry of Materials</i> , 2017, 29, 2081-2089.	6.7	16
24	Rapid magnetic isolation of extracellular vesicles via lipid-based nanoprobe. <i>Nature Biomedical Engineering</i> , 2017, 1, .	22.5	188
25	Mitochondria-Targeting Polydopamine Nanoparticles To Deliver Doxorubicin for Overcoming Drug Resistance. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 16793-16802.	8.0	135
26	A Nanostructured Microfluidic Immunoassay Platform for Highly Sensitive Infectious Pathogen Detection. <i>Small</i> , 2017, 13, 1700425.	10.0	66
27	Virus Capture: Label-Free Virus Capture and Release by a Microfluidic Device Integrated with Porous Silicon Nanowire Forest (Small 6/2017). <i>Small</i> , 2017, 13, .	10.0	0
28	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
29	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
30	Zinc oxide nanorod integrated microdevice for multiplex virus detection. , 2017, , .		0
31	Pathogen Detection: A Nanostructured Microfluidic Immunoassay Platform for Highly Sensitive Infectious Pathogen Detection (Small 24/2017). <i>Small</i> , 2017, 13, .	10.0	1
32	Chopper-modulated gas chromatography electroantennography enabled using high-temperature MEMS flow control device. <i>Microsystems and Nanoengineering</i> , 2017, 3, 17062.	7.0	3
33	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
34	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
35	Tunable and label-free virus enrichment for ultrasensitive virus detection using carbon nanotube arrays. <i>Science Advances</i> , 2016, 2, e1601026.	10.3	73
36	Synthesis of Self-Assembled Multifunctional Nanocomposite Catalysts with Highly Stabilized Reactivity and Magnetic Recyclability. <i>Scientific Reports</i> , 2016, 6, 25459.	3.3	28

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37	Nanomaterial integrated microfluidic devices for virus analysis. , 2015, , .		1
38	A microfluidic device of biodegradable porous silicon nanowires for size based capturing and releasing viruses. , 2015, , .		3
39	Nanostructured microfluidic digestion system for rapid high-performance proteolysis. Lab on A Chip, 2015, 15, 650-654.	6.0	14
40	A Combinatory Strategy for Detection of Live CTCs Using Microfiltration and a New Telomerase-Selective Adenovirus. Molecular Cancer Therapeutics, 2015, 14, 835-843.	4.1	15
41	Circulating tumor cell isolation during resection of colorectal cancer lung and liver metastases: a prospective trial with different detection techniques. Cancer Biology and Therapy, 2015, 16, 699-708.	3.4	55
42	On-Demand One-Step Synthesis of Monodisperse Functional Polymeric Microspheres with Droplet Microfluidics. Langmuir, 2015, 31, 3982-3992.	3.5	28
43	Genomic characterization of a turkey reovirus field strain by Next-Generation Sequencing. Infection, Genetics and Evolution, 2015, 32, 313-321.	2.3	21
44	Highly sensitive DNA detection using cascade amplification strategy based on hybridization chain reaction and enzyme-induced metallization. Biosensors and Bioelectronics, 2015, 66, 520-526.	10.1	53
45	Separable Bilayer Microfiltration Device for Viable Label-free Enrichment of Circulating Tumour Cells. Scientific Reports, 2014, 4, 7392.	3.3	91
46	Circulating tumor cells: Advances in isolation and analysis, and challenges for clinical applications. , 2014, 141, 209-221.		162
47	Facile Synthesis of Magnetic Mesoporous Hollow Carbon Microspheres for Rapid Capture of Low-Concentration Peptides. ACS Applied Materials & Interfaces, 2014, 6, 12719-12728.	8.0	71
48	Flexible Micro Spring Array Device for High-Throughput Enrichment of Viable Circulating Tumor Cells. Clinical Chemistry, 2014, 60, 323-333.	3.2	119
49	Preparation of magnetic graphene composites with hierarchical structure for selective capture of phosphopeptides. Journal of Materials Chemistry B, 2014, 2, 4711.	5.8	28
50	Point-of-Care Microdevices for Blood Plasma Analysis in Viral Infectious Diseases. Annals of Biomedical Engineering, 2014, 42, 2333-2343.	2.5	13
51	Construction of a high-performance magnetic enzyme nanosystem for rapid tryptic digestion. Scientific Reports, 2014, 4, 6947.	3.3	75
52	Microfluidic device with carbon nanotube channel walls for blood plasma extraction. , 2013, , .		2
53	Circulating Tumor Cell Enrichment Based on Physical Properties. Journal of the Association for Laboratory Automation, 2013, 18, 455-468.	2.8	126
54	Microfluidic device and system for point-of-care blood coagulation measurement based on electrical impedance sensing. Sensors and Actuators B: Chemical, 2013, 180, 21-27.	7.8	52

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55	Viable circulating tumor cell enrichment by flexible micro spring array. , 2012, 2012, 6269-72.		1
56	An implantable Fabry-PÃ©rot pressure sensor fabricated on left ventricular assist device for heart failure. Biomedical Microdevices, 2012, 14, 235-245.	2.8	32
57	Evidence for the existence of an unfolding intermediate state for aminoacylase during denaturation in guanidine solutions. BBA - Proteins and Proteomics, 1999, 1430, 39-45.	2.1	19
58	Kinetics of irreversible inhibition of yeast alcohol dehydrogenase during modification by 4,4â€²-dithiodipyridine. International Journal of Biological Macromolecules, 1997, 20, 307-313.	7.5	6
59	Ascertaining the Number of Essential Thiol Groups for the Folding of Creatine Kinase. Biochemical and Biophysical Research Communications, 1996, 221, 174-180.	2.1	26