Zihua Wang

List of Publications by Year
in descending order

73	6,321	218381	76769
papers	citations	26 h-index	74 g-index

79	79	79	12513
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The contribution of de novo coding mutations to autism spectrum disorder. Nature, 2014, 515, 216-221.	13.7	2,188
2	De Novo Gene Disruptions in Children on the Autistic Spectrum. Neuron, 2012, 74, 285-299.	3.8	1,311
3	Discovery of cancer drug targets by CRISPR-Cas9 screening of protein domains. Nature Biotechnology, 2015, 33, 661-667.	9.4	630
4	Accurate de novo and transmitted indel detection in exome-capture data using microassembly. Nature Methods, 2014, 11, 1033-1036.	9.0	194
5	Coordinatively Unsaturated Fe³⁺ Based Activatable Probes for Enhanced MRI and Therapy of Tumors. Angewandte Chemie - International Edition, 2019, 58, 11088-11096.	7.2	143
6	Molecular Cancer Imaging in the Second Nearâ€Infrared Window Using a Renalâ€Excreted NIRâ€II Fluorophoreâ€Peptide Probe. Advanced Materials, 2018, 30, e1800106.	11.1	115
7	Chromosomal instability accelerates the evolution of resistance to anti-cancer therapies. Developmental Cell, 2021, 56, 2427-2439.e4.	3.1	101
8	Indel variant analysis of short-read sequencing data with Scalpel. Nature Protocols, 2016, 11, 2529-2548.	5.5	99
9	Energy Migration Engineering of Bright Rareâ€Earth Upconversion Nanoparticles for Excitation by Lightâ€Emitting Diodes. Advanced Materials, 2015, 27, 6418-6422.	11.1	89
10	Autism risk in offspring can be assessed through quantification of male sperm mosaicism. Nature Medicine, 2020, 26, 143-150.	15.2	76
11	Tumor detection using magnetosome nanoparticles functionalized with a newly screened EGFR/HER2 targeting peptide. Biomaterials, 2017, 115, 53-64.	5.7	65
12	Single-Chromosomal Gains Can Function as Metastasis Suppressors and Promoters in Colon Cancer. Developmental Cell, 2020, 52, 413-428.e6.	3.1	65
13	SPECT/CT Imaging of the Novel HER2-Targeted Peptide Probe ^{99m}Tc-HYNIC-H6F in Breast Cancer Mouse Models. Journal of Nuclear Medicine, 2017, 58, 821-826.	2.8	55
14	A functional polymorphism within the MRP1 gene locus identified through its genomic signature of positive selection. Human Molecular Genetics, 2005, 14, 2075-2087.	1.4	53
15	Tumor-microenvironment controlled nanomicelles with AIE property for boosting cancer therapy and apoptosis monitoring. Biomaterials, 2019, 188, 96-106.	5.7	48
16	â€œSmartâ€•Nanoprobes for Visualization of Tumor Microenvironments. Advanced Healthcare Materials, 2018, 7, e1800391.	3.9	47
17	Microarray Based Screening of Peptide Nano Probes for HER2 Positive Tumor. Analytical Chemistry, 2015, 87, 8367-8372.	3.2	45
18	HER2 Targeting Peptides Screening and Applications in Tumor Imaging and Drug Delivery. Theranostics, 2016, 6, 1261-1273.	4.6	45

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19	Twoâ€Pronged Intracellular Coâ€Delivery of Antigen and Adjuvant for Synergistic Cancer Immunotherapy. Advanced Materials, 2022, 34, e2202168.	11.1	41
20	Rapid Screening of Peptide Probes through In Situ Single-Bead Sequencing Microarray. Analytical Chemistry, 2014, 86, 11854-11859.	3.2	40
21	Switchable Liposomes: Targeting-Peptide-Functionalized and pH-Triggered Cytoplasmic Delivery. ACS Applied Materials & Interfaces, 2016, 8, 18658-18663.	4.0	37
22	MMP-2-Controlled Transforming Micelles for Heterogeneic Targeting and Programmable Cancer Therapy. Theranostics, 2019, 9, 1728-1740.	4.6	37
23	Structure-based Design of Peptides with High Affinity and Specificity to HER2 Positive Tumors. Theranostics, 2015, 5, 1154-1165.	4.6	34
24	pH-Triggered Peptide Self-Assembly for Targeting Imaging and Therapy toward Angiogenesis with Enhanced Signals. ACS Applied Materials & Interfaces, 2018, 10, 7871-7881.	4.0	33
25	A novel plectin/integrin-targeted bispecific molecular probe for magnetic resonance/near-infrared imaging of pancreatic cancer. Biomaterials, 2018, 183, 173-184.	5.7	33
26	SMASH, a fragmentation and sequencing method for genomic copy number analysis. Genome Research, 2016, 26, 844-851.	2.4	31
27	Bimodal Imprint Chips for Peptide Screening: Integration of High-Throughput Sequencing by MS and Affinity Analyses by Surface Plasmon Resonance Imaging. Analytical Chemistry, 2014, 86, 3703-3707.	3.2	27
28	Gold nanoparticles enhance antibody effect through direct cancer cell cytotoxicity by differential regulation of phagocytosis. Nature Communications, 2021, 12, 6371.	5.8	27
29	Synergetic estrogen receptor-targeting liposome nanocarriers with anti-phagocytic properties for enhanced tumor theranostics. Journal of Materials Chemistry B, 2019, 7, 1056-1063.	2.9	25
30	An automated Teflon microfluidic peptide synthesizer. Lab on A Chip, 2013, 13, 3347.	3.1	24
31	An MRI contrast agent based on a zwitterionic metal-chelating polymer for hepatorenal angiography and tumor imaging. Journal of Materials Chemistry B, 2020, 8, 6956-6963.	2.9	24
32	Novel Peptide-Based Magnetic Nanoparticle for Mesenchymal Circulating Tumor Cells Detection. Analytical Chemistry, 2021, 93, 5670-5675.	3.2	24
33	Rates of contributory de novo mutation in high and low-risk autism families. Communications Biology, 2021, 4, 1026.	2.0	24
34	A Novel CD133- and EpCAM-Targeted Liposome With Redox-Responsive Properties Capable of Synergistically Eliminating Liver Cancer Stem Cells. Frontiers in Chemistry, 2020, 8, 649.	1.8	23
35	Predicting potentially functional SNPs in drug-response genes. Pharmacogenomics, 2009, 10, 639-653.	0.6	22
36	Ultrasensitive Gastric Cancer Circulating Tumor Cellular CLDN18.2 RNA Detection Based on a Molecular Beacon. Analytical Chemistry, 2021, 93, 665-670.	3.2	22

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37	Nucleotide sequence analyses of the MRP 1 gene in four populations suggest negative selection on its coding region. BMC Genomics, 2006, 7, 111.	1.2	21
38	Signatures of recent positive selection at the ATP-binding cassette drug transporter superfamily gene loci. Human Molecular Genetics, 2007, 16, 1367-1380.	1.4	19
39	The G allele of SNP E1/A118G at the Âμ-opioid receptor gene locus shows genomic evidence of recent positive selection. Pharmacogenomics, 2009, 10, 1101-1109.	0.6	18
40	Switchable probes: pH-triggered and VEGFR2 targeted peptides screening through imprinting microarray. Chemical Communications, 2016, 52, 5690-5693.	2.2	18
41	Coordinatively Unsaturated Fe 3+ Based Activatable Probes for Enhanced MRI and Therapy of Tumors. Angewandte Chemie, 2019, 131, 11205-11213.	1.6	18
42	Recent Advances in the Application of Mesenchymal Stem Cell-Derived Exosomes for Cardiovascular and Neurodegenerative Disease Therapies. Pharmaceutics, 2022, 14, 618.	2.0	18
43	Micromixer Based Preparation of Functionalized Liposomes and Targeting Drug Delivery. ACS Medicinal Chemistry Letters, 2016, 7, 429-434.	1.3	17
44	Integration of a Diselenide Unit Generates Fluorogenic Camptothecin Prodrugs with Improved Cytotoxicity to Cancer Cells. Journal of Medicinal Chemistry, 2021, 64, 17979-17991.	2.9	17
45	Peptide probes derived from pertuzumab by molecular dynamics modeling for HER2 positive tumor imaging. PLoS Computational Biology, 2017, 13, e1005441.	1.5	15
46	Imaging and monitoring HER2 expression in breast cancer during trastuzumab therapy with a peptide probe 99mTc-HYNIC-H10F. European Journal of Nuclear Medicine and Molecular Imaging, 2020, 47, 2613-2623.	3.3	15
47	Fibroblast Activation Proteinâ€Î± Responsive Peptide Assembling Prodrug Nanoparticles for Remodeling the Immunosuppressive Microenvironment and Boosting Cancer Immunotherapy. Small, 2022, 18, e2106296.	5.2	15
48	Discovering of Tumorâ€targeting Peptides using Biâ€functional Microarray. Advanced Healthcare Materials, 2015, 4, 2802-2808.	3.9	14
49	Peptide-conjugated PEGylated PAMAM as a highly affinitive nanocarrier towards HER2-overexpressing cancer cells. RSC Advances, 2016, 6, 107337-107343.	1.7	14
50	Precisely Enumerating Circulating Tumor Cells Utilizing a Multi-Functional Microfluidic Chip and Unique Image Interpretation Algorithm. Theranostics, 2017, 7, 4710-4721.	4.6	14
51	Label-free detection microarray for novel peptide ligands screening base on MSâ€“SPRi combination. Talanta, 2015, 134, 705-711.	2.9	13
52	DNA copy number variations in children with vesicoureteral reflux and urinary tract infections. PLoS ONE, 2019, 14, e0220617.	1.1	13
53	pH-Sensitive Ratiometric Fluorescent Probe for Evaluation of Tumor Treatments. Materials, 2019, 12, 1632.	1.3	13
54	Synergetic Tumor Probes for Facilitating Therapeutic Delivery by Combined-Functionalized Peptide Ligands. Analytical Chemistry, 2020, 92, 5650-5655.	3.2	13

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55	Peptide functionalized targeting liposomes: for nanoscale drug delivery towards angiogenesis. Journal of Materials Chemistry B, 2016, 4, 7087-7091.	2.9	12
56	Targeting peptide functionalized liposomes towards aminopeptidase N for precise tumor diagnosis and therapy. Biomaterials Science, 2017, 5, 417-421.	2.6	12
57	Boosting the Theranostic Effect of Liposomal Probes toward Prominin-1 through Optimized Dual-Site Targeting. Analytical Chemistry, 2019, 91, 7245-7253.	3.2	11
58	Construction of a novel bispecific fusion protein to enhance targeting for pancreatic cancer imaging. Biomaterials, 2020, 255, 120161.	5.7	11
59	A novel PD-L1 targeting peptide self-assembled nanofibers for sensitive tumor imaging and photothermal immunotherapy in vivo. Nano Research, 2022, 15, 7286-7294.	5.8	11
60	Upconversion luminescence mediated photodynamic therapy through hydrophilically engineered porphyrin. Chemical Engineering and Processing: Process Intensification, 2019, 142, 107551.	1.8	9
61	Rheumatoid arthritis drug sinomenine induces apoptosis of cervical tumor cells by targeting thioredoxin reductase in vitro and in vivo. Bioorganic Chemistry, 2022, 122, 105711.	2.0	8
62	Fetal polymorphisms at the ABCB1-transporter gene locus are associated with susceptibility to non-syndromic oral cleft malformations. European Journal of Human Genetics, 2013, 21, 1436-1441.	1.4	6
63	Distinguishing of tumor cell-targeting peptide ligands through a color-encoding microarray. Lab on A Chip, 2015, 15, 4512-4516.	3.1	6
64	Identifying EGFR-Expressed Cells and Detecting EGFR Multi-Mutations at Single-Cell Level by Microfluidic Chip. Nano-Micro Letters, 2018, 10, 16.	14.4	6
65	Partial bisulfite conversion for unique template sequencing. Nucleic Acids Research, 2018, 46, e10-e10.	6.5	6
66	A Novel Peptide Probe for Identification of PLS3-Expressed Cancer Cells. Analytical Chemistry, 2019, 91, 9640-9647.	3.2	6
67	A continuous flow microfluidic-MS system for efficient OBOC screening. RSC Advances, 2014, 4, 61767-61770.	1.7	4
68	Tumor Diagnosis: Discovering of Tumor-targeting Peptides using Bi-functional Microarray (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22	3.9	4
69	Multiplex accurate sensitive quantitation (MASQ) with application to minimal residual disease in acute myeloid leukemia. Nucleic Acids Research, 2020, 48, e40-e40.	6.5	4
70	Recent Advances in the Application Peptide and Peptoid in Diagnosis Biomarkers of Alzheimerâ€™s Disease in Blood. Frontiers in Molecular Neuroscience, 2021, 14, 778955.	1.4	4
71	Generation of a monoclonal antibody recognizing the heavily glycosylated CD45 protein and its application on identifying circulating tumor cells. PLoS ONE, 2018, 13, e0192506.	1.1	3
72	A novel peptide-based probe 99mTc-PEG6-RD-PDP2 for the molecular imaging of tumor PD-L2 expression. Chinese Chemical Letters, 2022, 33, 3497-3501.	4.8	2

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73	Realtime exonuclease-mediated allelic discrimination (READ): a simple homogeneous genotyping assay for SNPs at the ABC gene loci. Pharmacogenomics, 2009, 10, 1995-2001.	0.6	1