

# Zihua Wang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/563926/publications.pdf>

Version: 2024-02-01

73  
papers

6,321  
citations

218677

26  
h-index

76900

74  
g-index

79  
all docs

79  
docs citations

79  
times ranked

12513  
citing authors

#	ARTICLE	IF	CITATIONS
1	The contribution of de novo coding mutations to autism spectrum disorder. <i>Nature</i> , 2014, 515, 216-221.	27.8	2,188
2	De Novo Gene Disruptions in Children on the Autistic Spectrum. <i>Neuron</i> , 2012, 74, 285-299.	8.1	1,311
3	Discovery of cancer drug targets by CRISPR-Cas9 screening of protein domains. <i>Nature Biotechnology</i> , 2015, 33, 661-667.	17.5	630
4	Accurate de novo and transmitted indel detection in exome-capture data using microassembly. <i>Nature Methods</i> , 2014, 11, 1033-1036.	19.0	194
5	Coordinatively Unsaturated Fe <sup>3+</sup> Based Activatable Probes for Enhanced MRI and Therapy of Tumors. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11088-11096.	13.8	143
6	Molecular Cancer Imaging in the Second Near-Infrared Window Using a Renal-Excreted NIR-Fluorophore-Peptide Probe. <i>Advanced Materials</i> , 2018, 30, e1800106.	21.0	115
7	Chromosomal instability accelerates the evolution of resistance to anti-cancer therapies. <i>Developmental Cell</i> , 2021, 56, 2427-2439.e4.	7.0	101
8	Indel variant analysis of short-read sequencing data with Scalpel. <i>Nature Protocols</i> , 2016, 11, 2529-2548.	12.0	99
9	Energy Migration Engineering of Bright Rare-Earth Upconversion Nanoparticles for Excitation by Light-Emitting Diodes. <i>Advanced Materials</i> , 2015, 27, 6418-6422.	21.0	89
10	Autism risk in offspring can be assessed through quantification of male sperm mosaicism. <i>Nature Medicine</i> , 2020, 26, 143-150.	30.7	76
11	Tumor detection using magnetosome nanoparticles functionalized with a newly screened EGFR/HER2 targeting peptide. <i>Biomaterials</i> , 2017, 115, 53-64.	11.4	65
12	Single-Chromosomal Gains Can Function as Metastasis Suppressors and Promoters in Colon Cancer. <i>Developmental Cell</i> , 2020, 52, 413-428.e6.	7.0	65
13	SPECT/CT Imaging of the Novel HER2-Targeted Peptide Probe <sup>99m</sup> Tc-HYNIC-H6F in Breast Cancer Mouse Models. <i>Journal of Nuclear Medicine</i> , 2017, 58, 821-826.	5.0	55
14	A functional polymorphism within the MRP1 gene locus identified through its genomic signature of positive selection. <i>Human Molecular Genetics</i> , 2005, 14, 2075-2087.	2.9	53
15	Tumor-microenvironment controlled nanomicelles with AIE property for boosting cancer therapy and apoptosis monitoring. <i>Biomaterials</i> , 2019, 188, 96-106.	11.4	48
16	Smart-Nanoprobes for Visualization of Tumor Microenvironments. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800391.	7.6	47
17	Microarray Based Screening of Peptide Nano Probes for HER2 Positive Tumor. <i>Analytical Chemistry</i> , 2015, 87, 8367-8372.	6.5	45
18	HER2 Targeting Peptides Screening and Applications in Tumor Imaging and Drug Delivery. <i>Theranostics</i> , 2016, 6, 1261-1273.	10.0	45

#	ARTICLE	IF	CITATIONS
19	Two-Pronged Intracellular Co-Delivery of Antigen and Adjuvant for Synergistic Cancer Immunotherapy. <i>Advanced Materials</i> , 2022, 34, e2202168.	21.0	41
20	Rapid Screening of Peptide Probes through <i>In Situ</i> Single-Bead Sequencing Microarray. <i>Analytical Chemistry</i> , 2014, 86, 11854-11859.	6.5	40
21	Switchable Liposomes: Targeting-Peptide-Functionalized and pH-Triggered Cytoplasmic Delivery. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 18658-18663.	8.0	37
22	MMP-2-Controlled Transforming Micelles for Heterogeneous Targeting and Programmable Cancer Therapy. <i>Theranostics</i> , 2019, 9, 1728-1740.	10.0	37
23	Structure-based Design of Peptides with High Affinity and Specificity to HER2 Positive Tumors. <i>Theranostics</i> , 2015, 5, 1154-1165.	10.0	34
24	pH-Triggered Peptide Self-Assembly for Targeting Imaging and Therapy toward Angiogenesis with Enhanced Signals. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 7871-7881.	8.0	33
25	A novel plectin/integrin-targeted bispecific molecular probe for magnetic resonance/near-infrared imaging of pancreatic cancer. <i>Biomaterials</i> , 2018, 183, 173-184.	11.4	33
26	SMASH, a fragmentation and sequencing method for genomic copy number analysis. <i>Genome Research</i> , 2016, 26, 844-851.	5.5	31
27	Bimodal Imprint Chips for Peptide Screening: Integration of High-Throughput Sequencing by MS and Affinity Analyses by Surface Plasmon Resonance Imaging. <i>Analytical Chemistry</i> , 2014, 86, 3703-3707.	6.5	27
28	Gold nanoparticles enhance antibody effect through direct cancer cell cytotoxicity by differential regulation of phagocytosis. <i>Nature Communications</i> , 2021, 12, 6371.	12.8	27
29	Synergetic estrogen receptor-targeting liposome nanocarriers with anti-phagocytic properties for enhanced tumor theranostics. <i>Journal of Materials Chemistry B</i> , 2019, 7, 1056-1063.	5.8	25
30	An automated Teflon microfluidic peptide synthesizer. <i>Lab on A Chip</i> , 2013, 13, 3347.	6.0	24
31	An MRI contrast agent based on a zwitterionic metal-chelating polymer for hepatorenal angiography and tumor imaging. <i>Journal of Materials Chemistry B</i> , 2020, 8, 6956-6963.	5.8	24
32	Novel Peptide-Based Magnetic Nanoparticle for Mesenchymal Circulating Tumor Cells Detection. <i>Analytical Chemistry</i> , 2021, 93, 5670-5675.	6.5	24
33	Rates of contributory de novo mutation in high and low-risk autism families. <i>Communications Biology</i> , 2021, 4, 1026.	4.4	24
34	A Novel CD133- and EpCAM-Targeted Liposome With Redox-Responsive Properties Capable of Synergistically Eliminating Liver Cancer Stem Cells. <i>Frontiers in Chemistry</i> , 2020, 8, 649.	3.6	23
35	Predicting potentially functional SNPs in drug-response genes. <i>Pharmacogenomics</i> , 2009, 10, 639-653.	1.3	22
36	Ultrasensitive Gastric Cancer Circulating Tumor Cellular <i>CLDN18.2</i> RNA Detection Based on a Molecular Beacon. <i>Analytical Chemistry</i> , 2021, 93, 665-670.	6.5	22

#	ARTICLE	IF	CITATIONS
37	Nucleotide sequence analyses of the MRP 1 gene in four populations suggest negative selection on its coding region. <i>BMC Genomics</i> , 2006, 7, 111.	2.8	21
38	Signatures of recent positive selection at the ATP-binding cassette drug transporter superfamily gene loci. <i>Human Molecular Genetics</i> , 2007, 16, 1367-1380.	2.9	19
39	The G allele of SNP E1/A118G at the $\mu$ -opioid receptor gene locus shows genomic evidence of recent positive selection. <i>Pharmacogenomics</i> , 2009, 10, 1101-1109.	1.3	18
40	Switchable probes: pH-triggered and VEGFR2 targeted peptides screening through imprinting microarray. <i>Chemical Communications</i> , 2016, 52, 5690-5693.	4.1	18
41	Coordinatively Unsaturated Fe 3+ Based Activatable Probes for Enhanced MRI and Therapy of Tumors. <i>Angewandte Chemie</i> , 2019, 131, 11205-11213.	2.0	18
42	Recent Advances in the Application of Mesenchymal Stem Cell-Derived Exosomes for Cardiovascular and Neurodegenerative Disease Therapies. <i>Pharmaceutics</i> , 2022, 14, 618.	4.5	18
43	Micromixer Based Preparation of Functionalized Liposomes and Targeting Drug Delivery. <i>ACS Medicinal Chemistry Letters</i> , 2016, 7, 429-434.	2.8	17
44	Integration of a Diselenide Unit Generates Fluorogenic Camptothecin Prodrugs with Improved Cytotoxicity to Cancer Cells. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 17979-17991.	6.4	17
45	Peptide probes derived from pertuzumab by molecular dynamics modeling for HER2 positive tumor imaging. <i>PLoS Computational Biology</i> , 2017, 13, e1005441.	3.2	15
46	Imaging and monitoring HER2 expression in breast cancer during trastuzumab therapy with a peptide probe <sup>99m</sup> Tc-HYNIC-H10F. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2020, 47, 2613-2623.	6.4	15
47	Fibroblast Activation Protein-Responsive Peptide Assembling Prodrug Nanoparticles for Remodeling the Immunosuppressive Microenvironment and Boosting Cancer Immunotherapy. <i>Small</i> , 2022, 18, e2106296.	10.0	15
48	Discovering of Tumor-Targeting Peptides using Bi-Functional Microarray. <i>Advanced Healthcare Materials</i> , 2015, 4, 2802-2808.	7.6	14
49	Peptide-conjugated PEGylated PAMAM as a highly affinitive nanocarrier towards HER2-overexpressing cancer cells. <i>RSC Advances</i> , 2016, 6, 107337-107343.	3.6	14
50	Precisely Enumerating Circulating Tumor Cells Utilizing a Multi-Functional Microfluidic Chip and Unique Image Interpretation Algorithm. <i>Theranostics</i> , 2017, 7, 4710-4721.	10.0	14
51	Label-free detection microarray for novel peptide ligands screening base on MS-SPRi combination. <i>Talanta</i> , 2015, 134, 705-711.	5.5	13
52	DNA copy number variations in children with vesicoureteral reflux and urinary tract infections. <i>PLoS ONE</i> , 2019, 14, e0220617.	2.5	13
53	pH-Sensitive Ratiometric Fluorescent Probe for Evaluation of Tumor Treatments. <i>Materials</i> , 2019, 12, 1632.	2.9	13
54	Synergetic Tumor Probes for Facilitating Therapeutic Delivery by Combined-Functionalized Peptide Ligands. <i>Analytical Chemistry</i> , 2020, 92, 5650-5655.	6.5	13

#	ARTICLE	IF	CITATIONS
55	Peptide functionalized targeting liposomes: for nanoscale drug delivery towards angiogenesis. <i>Journal of Materials Chemistry B</i> , 2016, 4, 7087-7091.	5.8	12
56	Targeting peptide functionalized liposomes towards aminopeptidase N for precise tumor diagnosis and therapy. <i>Biomaterials Science</i> , 2017, 5, 417-421.	5.4	12
57	Boosting the Theranostic Effect of Liposomal Probes toward Prominin-1 through Optimized Dual-Site Targeting. <i>Analytical Chemistry</i> , 2019, 91, 7245-7253.	6.5	11
58	Construction of a novel bispecific fusion protein to enhance targeting for pancreatic cancer imaging. <i>Biomaterials</i> , 2020, 255, 120161.	11.4	11
59	A novel PD-L1 targeting peptide self-assembled nanofibers for sensitive tumor imaging and photothermal immunotherapy in vivo. <i>Nano Research</i> , 2022, 15, 7286-7294.	10.4	11
60	Upconversion luminescence mediated photodynamic therapy through hydrophilically engineered porphyrin. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019, 142, 107551.	3.6	9
61	Rheumatoid arthritis drug sinomenine induces apoptosis of cervical tumor cells by targeting thioredoxin reductase in vitro and in vivo. <i>Bioorganic Chemistry</i> , 2022, 122, 105711.	4.1	8
62	Fetal polymorphisms at the ABCB1-transporter gene locus are associated with susceptibility to non-syndromic oral cleft malformations. <i>European Journal of Human Genetics</i> , 2013, 21, 1436-1441.	2.8	6
63	Distinguishing of tumor cell-targeting peptide ligands through a color-encoding microarray. <i>Lab on A Chip</i> , 2015, 15, 4512-4516.	6.0	6
64	Identifying EGFR-Expressed Cells and Detecting EGFR Multi-Mutations at Single-Cell Level by Microfluidic Chip. <i>Nano-Micro Letters</i> , 2018, 10, 16.	27.0	6
65	Partial bisulfite conversion for unique template sequencing. <i>Nucleic Acids Research</i> , 2018, 46, e10-e10.	14.5	6
66	A Novel Peptide Probe for Identification of PLS3-Expressed Cancer Cells. <i>Analytical Chemistry</i> , 2019, 91, 9640-9647.	6.5	6
67	A continuous flow microfluidic-MS system for efficient OBOC screening. <i>RSC Advances</i> , 2014, 4, 61767-61770.	3.6	4
68	Tumor Diagnosis: Discovering of Tumor-targeting Peptides using Bi-functional Microarray (Adv.) <i>Tj ETQq0 0 0 rgBT /Overlock 4 Tf 50 22</i>	7.6	4
69	Multiplex accurate sensitive quantitation (MASQ) with application to minimal residual disease in acute myeloid leukemia. <i>Nucleic Acids Research</i> , 2020, 48, e40-e40.	14.5	4
70	Recent Advances in the Application Peptide and Peptoid in Diagnosis Biomarkers of Alzheimer's Disease in Blood. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 778955.	2.9	4
71	Generation of a monoclonal antibody recognizing the heavily glycosylated CD45 protein and its application on identifying circulating tumor cells. <i>PLoS ONE</i> , 2018, 13, e0192506.	2.5	3
72	A novel peptide-based probe <sup>99m</sup> Tc-PEG6-RD-PDP2 for the molecular imaging of tumor PD-L2 expression. <i>Chinese Chemical Letters</i> , 2022, 33, 3497-3501.	9.0	2

#	ARTICLE	IF	CITATIONS
73	Realtime exonuclease-mediated allelic discrimination (READ): a simple homogeneous genotyping assay for SNPs at the <i>ABC</i> gene loci. <i>Pharmacogenomics</i> , 2009, 10, 1995-2001.	1.3	1