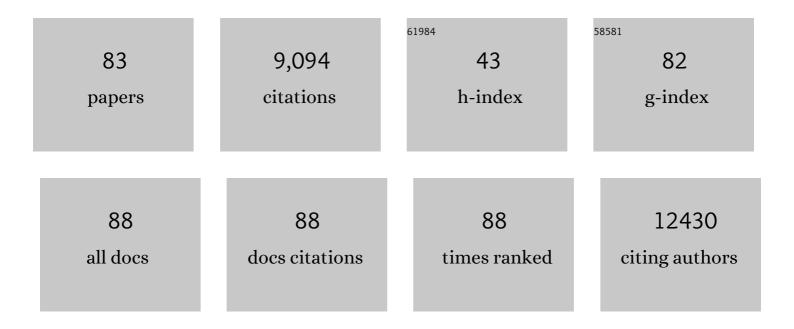
Weian Zhao

List of Publications by Year in descending order

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Μείλη Ζηγο

#	Article	IF	CITATIONS
1	Rolling circle amplification: a versatile tool for chemical biology, materials science and medicine. Chemical Society Reviews, 2014, 43, 3324.	38.1	837
2	Design of Gold Nanoparticleâ€Based Colorimetric Biosensing Assays. ChemBioChem, 2008, 9, 2363-2371.	2.6	701
3	Rolling Circle Amplification: Applications in Nanotechnology and Biodetection with Functional Nucleic Acids. Angewandte Chemie - International Edition, 2008, 47, 6330-6337.	13.8	506
4	Elucidation of Exosome Migration Across the Blood–Brain Barrier Model In Vitro. Cellular and Molecular Bioengineering, 2016, 9, 509-529.	2.1	368
5	DNA Aptamer Folding on Gold Nanoparticles:  From Colloid Chemistry to Biosensors. Journal of the American Chemical Society, 2008, 130, 3610-3618.	13.7	352
6	Stem Cell-Derived Exosomes as Nanotherapeutics for Autoimmune and Neurodegenerative Disorders. ACS Nano, 2019, 13, 6670-6688.	14.6	341
7	Paper-Based Bioassays Using Gold Nanoparticle Colorimetric Probes. Analytical Chemistry, 2008, 80, 8431-8437.	6.5	305
8	Enhanced Therapeutic Effects of Mesenchymal Stem Cell-Derived Exosomes with an Injectable Hydrogel for Hindlimb Ischemia Treatment. ACS Applied Materials & Interfaces, 2018, 10, 30081-30091.	8.0	271
9	Bioinspired multivalent DNA network for capture and release of cells. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19626-19631.	7.1	266
10	Rapid detection of single bacteria in unprocessed blood using Integrated Comprehensive Droplet Digital Detection. Nature Communications, 2014, 5, 5427.	12.8	248
11	Stem Cell Extracellular Vesicles: Extended Messages of Regeneration. Annual Review of Pharmacology and Toxicology, 2017, 57, 125-154.	9.4	223
12	Nucleic acid aptamers in cancer research, diagnosis and therapy. Chemical Society Reviews, 2015, 44, 1240-1256.	38.1	217
13	Simple and Rapid Colorimetric Biosensors Based on DNA Aptamer and Noncrosslinking Gold Nanoparticle Aggregation. ChemBioChem, 2007, 8, 727-731.	2.6	208
14	Colorimetric and Ultrasensitive Bioassay Based on a Dual-Amplification System Using Aptamer and DNAzyme. Analytical Chemistry, 2012, 84, 4711-4717.	6.5	203
15	Lab on paper. Lab on A Chip, 2008, 8, 1988.	6.0	202
16	Cell-surface sensors for real-time probing of cellular environments. Nature Nanotechnology, 2011, 6, 524-531.	31.5	201
17	Engineered cell homing. Blood, 2011, 118, e184-e191.	1.4	187
18	Meta-analysis of preclinical studies of mesenchymal stromal cells for ischemic stroke. Neurology, 2014, 82, 1277-1286.	1.1	179

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19	Simple and rapid colorimetric enzyme sensing assays using non-crosslinking gold nanoparticle aggregation. Chemical Communications, 2007, , 3729.	4.1	170
20	mRNA-engineered mesenchymal stem cells for targeted delivery of interleukin-10 to sites of inflammation. Blood, 2013, 122, e23-e32.	1.4	169
21	CAR-T design: Elements and their synergistic function. EBioMedicine, 2020, 58, 102931.	6.1	144
22	Enzymatic Cleavage of Nucleic Acids on Gold Nanoparticles: A Generic Platform for Facile Colorimetric Biosensors. Small, 2008, 4, 810-816.	10.0	136
23	Functional TCR T cell screening using single-cell droplet microfluidics. Lab on A Chip, 2018, 18, 3733-3749.	6.0	132
24	Tracking Mesenchymal Stem Cells with Iron Oxide Nanoparticle Loaded Poly(lactide-co-glycolide) Microparticles. Nano Letters, 2012, 12, 4131-4139.	9.1	129
25	DNA Polymerization on Gold Nanoparticles through Rolling Circle Amplification: Towards Novel Scaffolds for Three-Dimensional Periodic Nanoassemblies. Angewandte Chemie - International Edition, 2006, 45, 2409-2413.	13.8	124
26	Engineered mesenchymal stem cells with self-assembled vesicles for systemic cell targeting. Biomaterials, 2010, 31, 5266-5274.	11.4	120
27	A polyvalent aptamer system for targeted drug delivery. Biomaterials, 2013, 34, 9728-9735.	11.4	120
28	Evidence for High Translational Potential of Mesenchymal Stromal Cell Therapy to Improve Recovery from Ischemic Stroke. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 1322-1334.	4.3	119
29	From Blood to the Brain: Can Systemically Transplanted Mesenchymal Stem Cells Cross the Blood-Brain Barrier?. Stem Cells International, 2013, 2013, 1-7.	2.5	99
30	Droplet microfluidics for single-molecule and single-cell analysis in cancer research, diagnosis and therapy. TrAC - Trends in Analytical Chemistry, 2014, 58, 145-153.	11.4	99
31	Emerging Microtechnologies and Automated Systems for Rapid Bacterial Identification and Antibiotic Susceptibility Testing. SLAS Technology, 2017, 22, 585-608.	1.9	81
32	Mesenchymal stem cells engineered to express selectin ligands and IL-10 exert enhanced therapeutic efficacy in murine experimental autoimmune encephalomyelitis. Biomaterials, 2016, 77, 87-97.	11.4	76
33	Rapid bacterial detection and antibiotic susceptibility testing in whole blood using one-step, high throughput blood digital PCR. Lab on A Chip, 2020, 20, 477-489.	6.0	75
34	Nanoparticle-based monitoring of cell therapy. Nanotechnology, 2011, 22, 494001.	2.6	74
35	Novel Molecular and Nanosensors for In Vivo Sensing. Theranostics, 2013, 3, 583-594.	10.0	74
36	Mechanoresponsive stem cells to target cancer metastases through biophysical cues. Science Translational Medicine, 2017, 9, .	12.4	74

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37	Nanoantennas heat up. Nature Materials, 2009, 8, 453-454.	27.5	64
38	Digital quantification of miRNA directly in plasma using integrated comprehensive droplet digital detection. Lab on A Chip, 2015, 15, 4217-4226.	6.0	64
39	To grab the stroma by the horns: From biology to cancer therapy with mesenchymal stem cells. Oncotarget, 2013, 4, 651-664.	1.8	56
40	Constructing real-time, wash-free, and reiterative sensors for cell surface proteins using binding-induced dynamic DNA assembly. Chemical Science, 2015, 6, 5729-5733.	7.4	52
41	A mathematical model of mechanotransduction reveals how mechanical memory regulates mesenchymal stem cell fate decisions. BMC Systems Biology, 2017, 11, 55.	3.0	48
42	Floating Droplet Array: An Ultrahigh-Throughput Device for Droplet Trapping, Real-time Analysisand Recovery. Micromachines, 2015, 6, 1469-1482.	2.9	46
43	Mimicking the inflammatory cell adhesion cascade by nucleic acid aptamer programmed cellâ€cell interactions. FASEB Journal, 2011, 25, 3045-3056.	O.5	43
44	DNA‣caffolded Multivalent Ligands to Modulate Cell Function. ChemBioChem, 2014, 15, 1268-1273.	2.6	43
45	Wrapping single-walled carbon nanotubes with long single-stranded DNA molecules produced by rolling circle amplification. Chemical Communications, 2006, , 3582.	4.1	42
46	An ultrasensitive test for profiling circulating tumor DNA using integrated comprehensive droplet digital detection. Lab on A Chip, 2019, 19, 993-1005.	6.0	42
47	A Simple DNAzymeâ€Based Fluorescent Assay for <i>Klebsiella pneumoniae</i> . ChemBioChem, 2019, 20, 906-910.	2.6	41
48	Chemistry and material science at the cell surface. Materials Today, 2010, 13, 14-21.	14.2	38
49	Mesenchymal Stem Cell Biodistribution, Migration, and Homing <i>In Vivo</i> . Stem Cells International, 2014, 2014, 1-2.	2.5	34
50	A modular microarray imaging system for highly specific COVID-19 antibody testing. Lab on A Chip, 2020, 20, 3302-3309.	6.0	34
51	Cell Surface Engineering of Mesenchymal Stem Cells. Methods in Molecular Biology, 2011, 698, 505-523.	0.9	33
52	Meta-analysis of preclinical studies of mesenchymal stromal cells to treat rheumatoid arthritis. EBioMedicine, 2019, 47, 563-577.	6.1	32
53	Spatial transcriptomics using combinatorial fluorescence spectral and lifetime encoding, imaging and analysis. Nature Communications, 2022, 13, 169.	12.8	31
54	Therapeutic implications of transplanted-cell death. Nature Biomedical Engineering, 2021, 5, 379-384.	22.5	27

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55	Cellâ€surface sensors: lighting the cellular environment. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2012, 4, 547-561.	6.1	25
56	Isolation and characterization of microvesicles from mesenchymal stem cells. Methods, 2020, 177, 50-57.	3.8	25
57	Tetrandrine identified in a small molecule screen to activate mesenchymal stem cells for enhanced immunomodulation. Scientific Reports, 2016, 6, 30263.	3.3	24
58	Exosome loaded immunomodulatory biomaterials alleviate local immune response in immunocompetent diabetic mice post islet xenotransplantation. Communications Biology, 2021, 4, 685.	4.4	24
59	Transplantation of stem cells from umbilical cord blood as therapy for type I diabetes. Cell and Tissue Research, 2019, 378, 155-162.	2.9	22
60	Nanoparticle-based Monitoring of Stem Cell Therapy. Theranostics, 2013, 3, 616-617.	10.0	20
61	Aptamer technology for tracking cells' status & function. Molecular and Cellular Therapies, 2014, 2, 33.	0.2	20
62	The International Society for Extracellular Vesicles launches the first massive open online course on extracellular vesicles. Journal of Extracellular Vesicles, 2016, 5, 34299.	12.2	19
63	Targeting Biophysical Cues: a Niche Approach to Study, Diagnose, and Treat Cancer. Trends in Cancer, 2018, 4, 268-271.	7.4	19
64	Combinatorial targeting of cancer bone metastasis using mRNA engineered stem cells. EBioMedicine, 2019, 45, 39-57.	6.1	18
65	Bioengineering nanotechnology: towards the clinic. Nanotechnology, 2011, 22, 490201-490201.	2.6	16
66	A rapid, point-of-care antibiotic susceptibility test for urinary tract infections. Journal of Medical Microbiology, 2020, 69, 52-62.	1.8	13
67	Bioengineering tools to elucidate and control the fate of transplanted stem cells. Biochemical Society Transactions, 2014, 42, 679-687.	3.4	12
68	Facile Supermolecular Aptamer Inhibitors of L-Selectin. PLoS ONE, 2015, 10, e0123034.	2.5	11
69	Controlled Release of Stem Cell Secretome Attenuates Inflammatory Response against Implanted Biomaterials. Advanced Healthcare Materials, 2020, 9, e1901874.	7.6	10
70	Controlling Cell Fate In Vivo. ChemBioChem, 2009, 10, 2308-2310.	2.6	9
71	Periodic Assembly of Nanospecies on Repetitive DNA Sequences Generated on Gold Nanoparticles by Rolling Circle Amplification. Methods in Molecular Biology, 2008, 474, 79-90.	0.9	9
72	Opening windows on new biology and disease mechanisms: development of real-time in vivo sensors. Interface Focus, 2013, 3, 20130014.	3.0	8

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73	Rapid Detection of β-Lactamase-Producing Bacteria Using the Integrated Comprehensive Droplet Digital Detection (IC 3D) System. Sensors, 2020, 20, 4667.	3.8	7
74	Optimization of a syngeneic murine model of bone metastasis. Journal of Bone Oncology, 2020, 23, 100298.	2.4	7
75	Epigenetic silencing directs expression heterogeneity of stably integrated multi-transcript unit genetic circuits. Scientific Reports, 2021, 11, 2424.	3.3	7
76	Exogenous marker-engineered mesenchymal stem cells detect cancer and metastases in a simple blood assay. Stem Cell Research and Therapy, 2015, 6, 181.	5.5	6
77	β-endorphin at the intersection of pain and cancer progression: Preclinical evidence. Neuroscience Letters, 2021, 744, 135601.	2.1	5
78	Rapid isolation of rare targets from large fluid volumes. Scientific Reports, 2020, 10, 12458.	3.3	4
79	Fluorescence lifetime detection with particle counting devices. Biomedical Optics Express, 2019, 10, 1223.	2.9	3
80	Comparative study of folate cofactor models. International Journal of Quantum Chemistry, 2002, 87, 152-157.	2.0	2
81	Probe and Control of Cell–Cell Interactions Using Bioengineered Tools. , 2014, , 349-370.		0
82	138. Microencapsulated Aptamer Sensors for Digital Quantification of Blood Biomarkers. Molecular Therapy, 2015, 23, S56.	8.2	0
83	mRNA rescues neonatal acidemia while mice report no aftereffects. EBioMedicine, 2019, 46, 23-24.	6.1	0