Jasmeen S Merzaban

List of Publications by Year
in descending order

54 papers	2,759 citations	331259 21 h-index	223531 46 g-index
58 all docs	58 docs citations	58 times ranked	4730 citing authors

#	Article	IF	Citations
1	Modulated nanowire scaffold for highly efficient differentiation of mesenchymal stem cells. Journal of Nanobiotechnology, 2022, 20, .	4.2	6
2	Sustained and targeted delivery of checkpoint inhibitors by metal-organic frameworks for cancer immunotherapy. Science Advances, 2021, 7, .	4.7	58
3	Single-molecule imaging and microfluidic platform reveal molecular mechanisms of leukemic cell rolling. Communications Biology, 2021, 4, 868.	2.0	7
4	The Disparity Observed Between Murine Short-term and Long-term Hematopoietic Stem Cells in Their Ability to Migrate and Engraft When Introduced IV is Due to Distinct Adhesion Molecule Expression. Blood, 2021, 138, 1084-1084.	0.6	0
5	Proteome-level assessment of origin, prevalence and function of leucine-aspartic acid (LD) motifs. Bioinformatics, 2020, 36, 1121-1128.	1.8	10
6	A direct fluorescent signal transducer embedded in a DNA aptamer paves the way for versatile metal-ion detection. Sensors and Actuators B: Chemical, 2020, 304, 127376.	4.0	22
7	Simplified detection of polyhistidine-tagged proteins in gels and membranes using a UV-excitable dye and a multiple chelator head pair. Journal of Biological Chemistry, 2020, 295, 12214-12223.	1.6	8
8	Functionalization of Magnetic Nanowires for Active Targeting and Enhanced Cell-Killing Efficacy. ACS Applied Bio Materials, 2020, 3, 4789-4797.	2.3	16
9	3D Printed Microneedle Array for Electroporation. , 2020, 2020, 2202-2205.		0
10	Strain-induced Differentiation of Mesenchymal Stem Cells. , 2020, 2020, 2239-2244.		0
11	Using Eukaryotic Expression Systems to Generate Human α1,3-Fucosyltransferases That Effectively Create Selectin-Binding Glycans on Stem Cells. Biochemistry, 2020, 59, 3757-3771.	1.2	4
12	Magnetic core–shell nanowires as MRI contrast agents for cell tracking. Journal of Nanobiotechnology, 2020, 18, 42.	4.2	26
13	Functional binding of E-selectin to its ligands is enhanced by structural features beyond its lectin domain. Journal of Biological Chemistry, 2020, 295, 3719-3733.	1.6	12
14	Cell-Type-Specific CRISPR/Cas9 Delivery by Biomimetic Metal Organic Frameworks. Journal of the American Chemical Society, 2020, 142, 1715-1720.	6.6	162
15	Fluorescent Multiplex Cell Rolling Assay: Simultaneous Capturing up to Seven Samples in Real-Time Using Spectral Confocal Microscopy. Analytical Chemistry, 2020, 92, 6200-6206.	3.2	3
16	Biofunctionalization of Magnetic Nanomaterials. Journal of Visualized Experiments, 2020, , .	0.2	2
17	Iron-Based Core–Shell Nanowires for Combinatorial Drug Delivery and Photothermal and Magnetic Therapy. ACS Applied Materials & Interfaces, 2019, 11, 43976-43988.	4.0	38
18	De Novo Variants Disrupting the HX Repeat Motif of ATN1 Cause a Recognizable Non-Progressive Neurocognitive Syndrome. American Journal of Human Genetics, 2019, 104, 542-552.	2.6	19

#	Article	IF	Citations
19	Biofunctionalizing Magnetic Nanowires Toward Targeting and Killing Leukemia Cancer Cells. IEEE Transactions on Magnetics, 2019, 55, 1-5.	1.2	15
20	Endosomal Escape and Delivery of CRISPR/Cas9 Genome Editing Machinery Enabled by Nanoscale Zeolitic Imidazolate Framework. Journal of the American Chemical Society, 2018, 140, 143-146.	6.6	380
21	Review of In vitro Toxicity of Nanoparticles and Nanorods: Part 1. , 2018, , .		0
22	Dynamic structure mediates halophilic adaptation of a DNA polymerase from the deepâ€sea brines of the Red Sea. FASEB Journal, 2018, 32, 3346-3360.	0.2	13
23	Microfluidics-based super-resolution microscopy enables nanoscopic characterization of blood stem cell rolling. Science Advances, 2018, 4, eaat5304.	4.7	36
24	Expression and Characterization of Human Î²-1, 4-Galactosyltransferase 1 (Î²4GalT1) Using Silkwormâ€"Baculovirus Expression System. Molecular Biotechnology, 2017, 59, 151-158.	1.3	13
25	Nanomembraneâ€Based, Thermalâ€Transport Biosensor for Living Cells. Small, 2017, 13, 1603080.	5.2	19
26	Not just a marker: CD34 on human hematopoietic stem/progenitor cells dominates vascular selectin binding along with CD44. Blood Advances, 2017, 1, 2799-2816.	2.5	73
27	An Analysis of Trafficking Receptors Shows that CD44 and P-Selectin Glycoprotein Ligand-1 Collectively Control the Migration of Activated Human T-Cells. Frontiers in Immunology, 2017, 8, 492.	2.2	18
28	Correlative Lightâ€Electron Microscopy Shows RGDâ€Targeted ZnO Nanoparticles Dissolve in the Intracellular Environment of Triple Negative Breast Cancer Cells and Cause Apoptosis with Intratumor Heterogeneity. Advanced Healthcare Materials, 2016, 5, 1310-1325.	3.9	48
29	Anti-CD44 antibodies inhibit both mTORC1 and mTORC2: a new rationale supporting CD44-induced AML differentiation therapy. Leukemia, 2016, 30, 2397-2401.	3.3	24
30	Targeted Cancer Therapy: Correlative Lightâ€Electron Microscopy Shows RGDâ€Targeted ZnO Nanoparticles Dissolve in the Intracellular Environment of Triple Negative Breast Cancer Cells and Cause Apoptosis with Intratumor Heterogeneity (Adv. Healthcare Mater. 11/2016). Advanced Healthcare Materials, 2016, 5, 1248-1248.	3.9	2
31	Standardizing the experimental conditions for using urine in NMR-based metabolomic studies with a particular focus on diagnostic studies: a review. Metabolomics, 2015, 11, 872-894.	1.4	196
32	Cell surface glycan engineering of neural stem cells augments neurotropism and improves recovery in a murine model of multiple sclerosis. Glycobiology, 2015, 25, 1392-1409.	1.3	49
33	Quantitative Characterization of E-selectin Interaction with Native CD44 and P-selectin Glycoprotein Ligand-1 (PSGL-1) Using a Real Time Immunoprecipitation-based Binding Assay. Journal of Biological Chemistry, 2015, 290, 21213-21230.	1.6	27
34	Efficient fdCas9 Synthetic Endonuclease with Improved Specificity for Precise Genome Engineering. PLoS ONE, 2015, 10, e0133373.	1.1	46
35	Theory and Applications of NMR-Based Metabolomics in Human Disease Diagnosis. , 2015, , 93-130.		4
36	Towards a Targeted Therapy:Phosphoproteomics Reveals Signaling Pathways That Are Normalized in AML Cells Following Treatment with Anti-CD44 Antibodies. Blood, 2015, 126, 1402-1402.	0.6	0

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37	CD44 and PSGL-1 Collaborate in Controlling the Migration of Human Activated T-Cells. Blood, 2015, 126, 3429-3429.	0.6	0
38	Isolation of cells for selective treatment and analysis using a magnetic microfluidic chip. Biomicrofluidics, 2014, 8, 034114.	1.2	25
39	Determination of Inter-leaf Translocated Free Glyphosate in Arabidopsis thaliana using Liquid Chromatography Tandem Mass Spectrometry (LCMS/MS) after Derivatization with Fluorenylmethyloxycarbonyl Chloride (FMOC-Cl). Journal of Analytical & Bioanalytical Techniques, 2014, s2, .	0.6	3
40	A red and farâ€‹red light receptor mutation confers resistance to the herbicide glyphosate. Plant Journal, 2014, 78, 916-926.	2.8	21
41	Cell Surface Enzymatic Engineering-Based Approaches to Improve Cellular Therapies. , 2014, , 175-213.		2
42	<I>P</I>-Glycoprotein Targeted Nanoscale Drug Carriers. Journal of Nanoscience and Nanotechnology, 2013, 13, 1399-1402.	0.9	4
43	NMR-based metabolomics in human disease diagnosis: applications, limitations, and recommendations. Metabolomics, 2013, 9, 1048-1072.	1.4	203
44	ERK1/2 Pathway Is Required for Differentiation of AML Triggered by Anti-CD44 Monoclonal Antibodies. Blood, 2012, 120, 4334-4334.	0.6	6
45	Anti-CD44 Antibodies Inhibit Both mTORC1 and mTORC2 Activities in Acute Myeloid Leukemia.. Blood, 2012, 120, 2620-2620.	0.6	5
46	Analysis of glycoprotein E-selectin ligands on human and mouse marrow cells enriched for hematopoietic stem/progenitor cells. Blood, 2011, 118, 1774-1783.	0.6	86
47	Ex vivo glycan engineering of CD44 programs human multipotent mesenchymal stromal cell trafficking to bone. Nature Medicine, 2008, 14, 181-187.	15.2	573
48	Interaction of the selectin ligand PSGL-1 with chemokines CCL21 and CCL19 facilitates efficient homing of T cells to secondary lymphoid organs. Nature Immunology, 2007, 8, 532-539.	7.0	110
49	Ex Vivo Glycan Engineering of Membrane CD44 To Create HCELL Programs Human Mesenchymal Stem Cell Trafficking to Bone.. Blood, 2007, 110, 218-218.	0.6	2
50	Recruitment of adult thymic progenitors is regulated by P-selectin and its ligand PSGL-1. Nature Immunology, 2005, 6, 626-634.	7.0	213
51	CD43 Is Required for Optimal Growth Inhibition of <i>Mycobacterium tuberculosis</i> in Macrophages and in Mice. Journal of Immunology, 2005, 175, 1805-1812.	0.4	25
52	An Alternate Core 2 Î²1,6-<i>N</i>-Acetylglucosaminyltransferase Selectively Contributes to P-Selectin Ligand Formation in Activated CD8 T Cells. Journal of Immunology, 2005, 174, 4051-4059.	0.4	20
53	CD34 and CD43 Inhibit Mast Cell Adhesion and Are Required for Optimal Mast Cell Reconstitution. Immunity, 2005, 22, 43-57.	6.6	100
54	Review of In Vitro Toxicity of Nanoparticles and Nanorodsâ€"Part 2. , 0, , .		0