

Steven M Jay

List of Publications by Year in descending order

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68
papers

12,103
citations

117571

34
h-index

128225

60
g-index

71
all docs

71
docs citations

71
times ranked

18989
citing authors

#	ARTICLE	IF	CITATIONS
1	Minimal information for studies of extracellular vesicles 2018 (MISEV2018): a position statement of the International Society for Extracellular Vesicles and update of the MISEV2014 guidelines. <i>Journal of Extracellular Vesicles</i> , 2018, 7, 1535750.	5.5	6,961
2	Growth Differentiation Factor 11 Is a Circulating Factor that Reverses Age-Related Cardiac Hypertrophy. <i>Cell</i> , 2013, 153, 828-839.	13.5	791
3	Tissue-engineered vascular grafts transform into mature blood vessels via an inflammation-mediated process of vascular remodeling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 4669-4674.	3.3	495
4	Combination delivery of TGF- β inhibitor and IL-2 by nanoscale liposomal polymeric gels enhances tumour immunotherapy. <i>Nature Materials</i> , 2012, 11, 895-905.	13.3	456
5	Preservation and Storage Stability of Extracellular Vesicles for Therapeutic Applications. <i>AAPS Journal</i> , 2018, 20, 1.	2.2	294
6	Exogenous DNA Loading into Extracellular Vesicles via Electroporation is Size-Dependent and Enables Limited Gene Delivery. <i>Molecular Pharmaceutics</i> , 2015, 12, 3650-3657.	2.3	282
7	Oncogene Knockdown via Active Loading of Small RNAs into Extracellular Vesicles by Sonication. <i>Cellular and Molecular Bioengineering</i> , 2016, 9, 315-324.	1.0	235
8	Emerging Roles for Extracellular Vesicles in Tissue Engineering and Regenerative Medicine. <i>Tissue Engineering - Part B: Reviews</i> , 2015, 21, 45-54.	2.5	188
9	Biological membranes in EV biogenesis, stability, uptake, and cargo transfer: an ISEV position paper arising from the ISEV membranes and EVs workshop. <i>Journal of Extracellular Vesicles</i> , 2019, 8, 1684862.	5.5	177
10	Controlled delivery of VEGF via modulation of alginate microparticle ionic crosslinking. <i>Journal of Controlled Release</i> , 2009, 134, 26-34.	4.8	167
11	Impact of cell culture parameters on production and vascularization bioactivity of mesenchymal stem cell-derived extracellular vesicles. <i>Bioengineering and Translational Medicine</i> , 2017, 2, 170-179.	3.9	159
12	Enhanced Loading of Functional miRNA Cargo via pH Gradient Modification of Extracellular Vesicles. <i>Molecular Therapy</i> , 2020, 28, 975-985.	3.7	102
13	Enhanced extracellular vesicle production and ethanol-mediated vascularization bioactivity via a 3D-printed scaffold-perfusion bioreactor system. <i>Acta Biomaterialia</i> , 2019, 95, 236-244.	4.1	91
14	Foreign Body Giant Cell Formation Is Preceded by Lamellipodia Formation and Can Be Attenuated by Inhibition of Rac1 Activation. <i>American Journal of Pathology</i> , 2007, 171, 632-640.	1.9	88
15	Circulating Plasma Extracellular Vesicles from Septic Mice Induce Inflammation via MicroRNA- and TLR7-Dependent Mechanisms. <i>Journal of Immunology</i> , 2018, 201, 3392-3400.	0.4	88
16	Towards rationally designed biomanufacturing of therapeutic extracellular vesicles: impact of the bioproduction microenvironment. <i>Biotechnology Advances</i> , 2018, 36, 2051-2059.	6.0	88
17	Dual delivery of VEGF and MCP-1 to support endothelial cell transplantation for therapeutic vascularization. <i>Biomaterials</i> , 2010, 31, 3054-3062.	5.7	85
18	An Engineered Bivalent Neuregulin Protects Against Doxorubicin-Induced Cardiotoxicity With Reduced Proneoplastic Potential. <i>Circulation</i> , 2013, 128, 152-161.	1.6	84

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19	Enhancement of surface ligand display on PLGA nanoparticles with amphiphilic ligand conjugates. <i>Journal of Controlled Release</i> , 2011, 156, 109-115.	4.8	72
20	3D printed HUVECs/MSCs cocultures impact cellular interactions and angiogenesis depending on cell-cell distance. <i>Biomaterials</i> , 2019, 222, 119423.	5.7	71
21	Cardiac regeneration using human-induced pluripotent stem cell-derived biomaterial-free 3D-bioprinted cardiac patch in vivo. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2019, 13, 2031-2039.	1.3	66
22	HOTAIR-Loaded Mesenchymal Stem/Stromal Cell Extracellular Vesicles Enhance Angiogenesis and Wound Healing. <i>Advanced Healthcare Materials</i> , 2022, 11, e2002070.	3.9	62
23	Engineering of multifunctional gels integrating highly efficient growth factor delivery with endothelial cell transplantation. <i>FASEB Journal</i> , 2008, 22, 2949-2956.	0.2	60
24	IL-12 stimulates CTLs to secrete exosomes capable of activating bystander CD8+ T cells. <i>Scientific Reports</i> , 2017, 7, 13365.	1.6	53
25	Extracellular Vesicles as an Emerging Frontier in Spinal Cord Injury Pathobiology and Therapy. <i>Trends in Neurosciences</i> , 2021, 44, 492-506.	4.2	53
26	Ethanol Induces Enhanced Vascularization Bioactivity of Endothelial Cell-Derived Extracellular Vesicles via Regulation of MicroRNAs and Long Non-Coding RNAs. <i>Scientific Reports</i> , 2017, 7, 13794.	1.6	52
27	Human Aortic Smooth Muscle Cells Promote Arteriole Formation by Coengrafted Endothelial Cells. <i>Tissue Engineering - Part A</i> , 2009, 15, 165-173.	1.6	48
28	CD44 Promotes Inflammation and Extracellular Matrix Production During Arteriovenous Fistula Maturation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 1147-1156.	1.1	47
29	A platform of genetically engineered bacteria as vehicles for localized delivery of therapeutics: Toward applications for Crohn's disease. <i>Bioengineering and Translational Medicine</i> , 2018, 3, 209-221.	3.9	47
30	Functionalized poly(lactic-co-glycolic acid) enhances drug delivery and provides chemical moieties for surface engineering while preserving biocompatibility. <i>Acta Biomaterialia</i> , 2009, 5, 2860-2871.	4.1	43
31	Genetic Interactions With <i>CLF1</i> Identify Additional Pre-mRNA Splicing Factors and a Link Between Activators of Yeast Vesicular Transport and Splicing. <i>Genetics</i> , 2003, 164, 895-907.	1.2	43
32	Protein Engineering for Cardiovascular Therapeutics. <i>Circulation Research</i> , 2013, 113, 933-943.	2.0	42
33	Therapeutic potential of extracellular vesicle-associated long noncoding RNA. <i>Bioengineering and Translational Medicine</i> , 2020, 5, e10172.	3.9	41
34	VEGF-A and Semaphorin3A: Modulators of vascular sympathetic innervation. <i>Developmental Biology</i> , 2009, 334, 119-132.	0.9	38
35	Production of Extracellular Vesicles Loaded with Therapeutic Cargo. <i>Methods in Molecular Biology</i> , 2018, 1831, 37-47.	0.4	37
36	Transmucosal delivery of testosterone in rabbits using novel bi-layer mucoadhesive wax-film composite disks. <i>Journal of Pharmaceutical Sciences</i> , 2002, 91, 2016-2025.	1.6	35

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37	Macrophage fusion leading to foreign body giant cell formation persists under phagocytic stimulation by microspheres <i>in vitro</i> and <i>in vivo</i> in mouse models. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 93A, 189-199.	2.1	33
38	Electropolymerization on Microelectrodes: A Functionalization Technique for Selective Protein and DNA Conjugation. <i>Analytical Chemistry</i> , 2006, 78, 6340-6346.	3.2	28
39	Pigment Epithelium-Derived Factor (PEDF) Suppresses IL-1 β -Mediated c-Jun N-Terminal Kinase (JNK) Activation to Improve Hepatocyte Insulin Signaling. <i>Endocrinology</i> , 2014, 155, 1373-1385.	1.4	27
40	Tick extracellular vesicles enable arthropod feeding and promote distinct outcomes of bacterial infection. <i>Nature Communications</i> , 2021, 12, 3696.	5.8	27
41	Shining light on a new class of hydrogels. <i>Nature Biotechnology</i> , 2009, 27, 543-544.	9.4	26
42	Sustained released of bioactive mesenchymal stromal cell-derived extracellular vesicles from 3D-printed gelatin methacrylate hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , 2022, 110, 1190-1198.	2.1	26
43	Extracellular miR-146a-5p Induces Cardiac Innate Immune Response and Cardiomyocyte Dysfunction. <i>ImmunoHorizons</i> , 2020, 4, 561-572.	0.8	25
44	Engineered Bivalent Ligands to Bias ErbB Receptor-mediated Signaling and Phenotypes. <i>Journal of Biological Chemistry</i> , 2011, 286, 27729-27740.	1.6	23
45	Engineered Multivalency Enhances Affibody-Based HER3 Inhibition and Downregulation in Cancer Cells. <i>Molecular Pharmaceutics</i> , 2017, 14, 1047-1056.	2.3	21
46	Bacterial Extracellular Vesicles and the Gut-Microbiota Brain Axis: Emerging Roles in Communication and Potential as Therapeutics. <i>Advanced Biology</i> , 2021, 5, e2000540.	1.4	18
47	A Net Mold-Based Method of Biomaterial-Free Three-Dimensional Cardiac Tissue Creation. <i>Tissue Engineering - Part C: Methods</i> , 2019, 25, 243-252.	1.1	17
48	Role of extracellular microRNA-146a-5p in host innate immunity and bacterial sepsis. <i>IScience</i> , 2021, 24, 103441.	1.9	16
49	Therapeutic Potential of Extracellular Vesicles for Sepsis Treatment. <i>Advanced Therapeutics</i> , 2021, 4, 2000259.	1.6	14
50	Ubiquitin Conjugation Probed by Inflammation in Myeloid-Derived Suppressor Cell Extracellular Vesicles. <i>Journal of Proteome Research</i> , 2018, 17, 315-324.	1.8	13
51	Spatiotemporal Control over Molecular Delivery and Cellular Encapsulation from Electropolymerized Micro- and Nanopatterned Surfaces. <i>Advanced Functional Materials</i> , 2009, 19, 2888-2895.	7.8	9
52	Protein-based vehicles for biomimetic RNAi delivery. <i>Journal of Biological Engineering</i> , 2019, 13, 19.	2.0	9
53	Homologous Quorum Sensing Regulatory Circuit: A Dual-Input Genetic Controller for Modulating Quorum Sensing-Mediated Protein Expression in <i>E. coli</i> . <i>ACS Synthetic Biology</i> , 2020, 9, 2692-2702.	1.9	9
54	Emerging Impact of Extracellular Vesicles on Tissue Engineering and Regeneration. <i>Tissue Engineering - Part A</i> , 2017, 23, 1210-1211.	1.6	5

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55	HER3-Targeted Affibodies with Optimized Formats Reduce Ovarian Cancer Progression in a Mouse Xenograft Model. AAPS Journal, 2019, 21, 48.	2.2	3
56	Protein silencing to stop a "silent killer". Science Translational Medicine, 2019, 11, .	5.8	2
57	Biodegradable Microparticles Based on Poly(D,L-Lactide) as a Protective Transport System in Ruminant Digestion. Pharmaceutical Development and Technology, 2006, 11, 485-491.	1.1	1
58	Patching up the Myocardium. Circulation Research, 2011, 109, 480-481.	2.0	1
59	A large (scale) advance for small RNA therapeutics. Science Translational Medicine, 2018, 10, .	5.8	1
60	Extracellular Vesicle Loading Via pH-Gradient Modification. Methods in Molecular Biology, 2022, 2504, 231-239.	0.4	1
61	Engineered molecular delivery for control and enhancement of transplanted endothelial cell fate in tissue engineering. , 2009, , .		0
62	Extracellular Vesicles and their Versatile Roles in Tissue Engineering. Tissue Engineering - Part A, 2017, , .	1.6	0
63	Introduction to Editorial Board Member: Professor W. Mark Saltzman. Bioengineering and Translational Medicine, 2020, 5, e10174.	3.9	0
64	An Evolving approach to directed enzyme prodrug therapy for cancer. Science Translational Medicine, 2018, 10, .	5.8	0
65	Slow and steady wins the race. Science Translational Medicine, 2018, 10, .	5.8	0
66	<i>A New Hope</i> for chronic myocardial ischemia. Science Translational Medicine, 2018, 10, .	5.8	0
67	Special delivery by "armored" CAR-T. Science Translational Medicine, 2018, 10, .	5.8	0
68	Both sides of the CRISPR coin. Science Translational Medicine, 2019, 11, .	5.8	0