

# Jeffrey M Karp

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

108 papers	16,741 citations	45 h-index	122 g-index
122 ext. papers	18,943 ext. citations	12.9 avg, IF	6.81 L-index

#	Paper	IF	Citations
108	Nanocarriers as an emerging platform for cancer therapy. <i>Nature Nanotechnology</i> , <b>2007</b> , 2, 751-60	28.7	6530
107	Mesenchymal stem cell homing: the devil is in the details. <i>Cell Stem Cell</i> , <b>2009</b> , 4, 206-16	18	1059
106	Progress and challenges towards targeted delivery of cancer therapeutics. <i>Nature Communications</i> , <b>2018</b> , 9, 1410	17.4	976
105	Mesenchymal stem cells: immune evasive, not immune privileged. <i>Nature Biotechnology</i> , <b>2014</b> , 32, 252-60	14.5	825
104	Harnessing the mesenchymal stem cell secretome for the treatment of cardiovascular disease. <i>Cell Stem Cell</i> , <b>2012</b> , 10, 244-58	18	622
103	Engineering Stem Cell Organoids. <i>Cell Stem Cell</i> , <b>2016</b> , 18, 25-38	18	494
102	Mesenchymal stem cell therapy: Two steps forward, one step back. <i>Trends in Molecular Medicine</i> , <b>2010</b> , 16, 203-9	11.5	455
101	A biodegradable and biocompatible gecko-inspired tissue adhesive. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 2307-12	11.5	417
100	Niche-independent high-purity cultures of Lgr5+ intestinal stem cells and their progeny. <i>Nature Methods</i> , <b>2014</b> , 11, 106-12	21.6	332
99	Controlling size, shape and homogeneity of embryoid bodies using poly(ethylene glycol) microwells. <i>Lab on A Chip</i> , <b>2007</b> , 7, 786-94	7.2	323
98	A bio-inspired swellable microneedle adhesive for mechanical interlocking with tissue. <i>Nature Communications</i> , <b>2013</b> , 4, 1702	17.4	230
97	Bioinspired multivalent DNA network for capture and release of cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 19626-31	11.5	228
96	Accelerating the Translation of Nanomaterials in Biomedicine. <i>ACS Nano</i> , <b>2015</b> , 9, 6644-54	16.7	220
95	Nanoparticle-aptamer bioconjugates for cancer targeting. <i>Expert Opinion on Drug Delivery</i> , <b>2006</b> , 3, 311-24	24	208
94	An inflammation-targeting hydrogel for local drug delivery in inflammatory bowel disease. <i>Science Translational Medicine</i> , <b>2015</b> , 7, 300ra128	17.5	196
93	A blood-resistant surgical glue for minimally invasive repair of vessels and heart defects. <i>Science Translational Medicine</i> , <b>2014</b> , 6, 218ra6	17.5	193
92	Cultivation of human embryonic stem cells without the embryoid body step enhances osteogenesis in vitro. <i>Stem Cells</i> , <b>2006</b> , 24, 835-43	5.8	151

91	mRNA-engineered mesenchymal stem cells for targeted delivery of interleukin-10 to sites of inflammation. <i>Blood</i> , <b>2013</b> , 122, e23-32	2.2	139
90	Bone formation on two-dimensional poly(DL-lactide-co-glycolide) (PLGA) films and three-dimensional PLGA tissue engineering scaffolds in vitro. <i>Journal of Biomedical Materials Research Part B</i> , <b>2003</b> , 64, 388-96		138
89	Shattering barriers toward clinically meaningful MSC therapies. <i>Science Advances</i> , <b>2020</b> , 6, eaba6884	14.3	137
88	Self-assembled prodrugs: an enzymatically triggered drug-delivery platform. <i>Biomaterials</i> , <b>2009</b> , 30, 383-936	15.6	131
87	Tracking mesenchymal stem cells with iron oxide nanoparticle loaded poly(lactide-co-glycolide) microparticles. <i>Nano Letters</i> , <b>2012</b> , 12, 4131-9	11.5	116
86	Towards an arthritis flare-responsive drug delivery system. <i>Nature Communications</i> , <b>2018</b> , 9, 1275	17.4	108
85	Clonal Expansion of Lgr5-Positive Cells from Mammalian Cochlea and High-Purity Generation of Sensory Hair Cells. <i>Cell Reports</i> , <b>2017</b> , 18, 1917-1929	10.6	103
84	A photolithographic method to create cellular micropatterns. <i>Biomaterials</i> , <b>2006</b> , 27, 4755-64	15.6	103
83	A single localized dose of enzyme-responsive hydrogel improves long-term survival of a vascularized composite allograft. <i>Science Translational Medicine</i> , <b>2014</b> , 6, 249ra110	17.5	100
82	Development and therapeutic applications of advanced biomaterials. <i>Current Opinion in Biotechnology</i> , <b>2007</b> , 18, 454-9	11.4	100
81	Chemical engineering of mesenchymal stem cells to induce a cell rolling response. <i>Bioconjugate Chemistry</i> , <b>2008</b> , 19, 2105-9	6.3	90
80	Overcoming the translational barriers of tissue adhesives. <i>Nature Reviews Materials</i> , <b>2020</b> , 5, 310-329	73.3	89
79	A self-adherent, bullet-shaped microneedle patch for controlled transdermal delivery of insulin. <i>Journal of Controlled Release</i> , <b>2017</b> , 265, 48-56	11.7	87
78	Fibrin-filled scaffolds for bone-tissue engineering: An in vivo study. <i>Journal of Biomedical Materials Research Part B</i> , <b>2004</b> , 71, 162-71		86
77	Multiscale technologies for treatment of ischemic cardiomyopathy. <i>Nature Nanotechnology</i> , <b>2017</b> , 12, 845-855	28.7	84
76	A highly tunable biocompatible and multifunctional biodegradable elastomer. <i>Advanced Materials</i> , <b>2013</b> , 25, 1209-15	24	79
75	Microstructured barbs on the North American porcupine quill enable easy tissue penetration and difficult removal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 21289-94	11.5	78
74	Cabozantinib Eradicates Advanced Murine Prostate Cancer by Activating Antitumor Innate Immunity. <i>Cancer Discovery</i> , <b>2017</b> , 7, 750-765	24.4	77

73	Engineering cells with intracellular agent-loaded microparticles to control cell phenotype. <i>Nature Protocols</i> , <b>2014</b> , 9, 233-45	18.8	75
72	Application of biomaterials to advance induced pluripotent stem cell research and therapy. <i>EMBO Journal</i> , <b>2015</b> , 34, 987-1008	13	64
71	Performance-enhanced mesenchymal stem cells via intracellular delivery of steroids. <i>Scientific Reports</i> , <b>2014</b> , 4, 4645	4.9	60
70	Prodrugs as self-assembled hydrogels: a new paradigm for biomaterials. <i>Current Opinion in Biotechnology</i> , <b>2013</b> , 24, 1174-82	11.4	59
69	Nanoparticle-based monitoring of cell therapy. <i>Nanotechnology</i> , <b>2011</b> , 22, 494001	3.4	59
68	A prodrug-doped cellular Trojan Horse for the potential treatment of prostate cancer. <i>Biomaterials</i> , <b>2016</b> , 91, 140-150	15.6	55
67	Culturing human intestinal stem cells for regenerative applications in the treatment of inflammatory bowel disease. <i>EMBO Molecular Medicine</i> , <b>2017</b> , 9, 558-570	12	54
66	The Kinetics of Small Extracellular Vesicle Delivery Impacts Skin Tissue Regeneration. <i>ACS Nano</i> , <b>2019</b> , 13, 8694-8707	16.7	54
65	Cellular and extracellular programming of cell fate through engineered intracrine-, paracrine-, and endocrine-like mechanisms. <i>Biomaterials</i> , <b>2011</b> , 32, 3053-61	15.6	51
64	Genetically Programmable Self-Regenerating Bacterial Hydrogels. <i>Advanced Materials</i> , <b>2019</b> , 31, e1901824	12.4	46
63	Generating iPSCs: translating cell reprogramming science into scalable and robust biomanufacturing strategies. <i>Cell Stem Cell</i> , <b>2015</b> , 16, 13-7	18	45
62	Intraoperative stem cell therapy. <i>Annual Review of Biomedical Engineering</i> , <b>2012</b> , 14, 325-49	12	41
61	A small-molecule screen for enhanced homing of systemically infused cells. <i>Cell Reports</i> , <b>2015</b> , 10, 1261-1268	12.6	38
60	Thrombin mediated migration of osteogenic cells. <i>Bone</i> , <b>2005</b> , 37, 337-48	4.7	36
59	Emerging medical devices for minimally invasive cell therapy. <i>Mayo Clinic Proceedings</i> , <b>2014</b> , 89, 259-73	6.4	35
58	Chemistry and material science at the cell surface. <i>Materials Today</i> , <b>2010</b> , 13, 14-21	21.8	35
57	A Phase I Study to Assess the Safety and Cancer-Homing Ability of Allogeneic Bone Marrow-Derived Mesenchymal Stem Cells in Men with Localized Prostate Cancer. <i>Stem Cells Translational Medicine</i> , <b>2019</b> , 8, 441-449	6.9	33
56	Enabling consistency in pluripotent stem cell-derived products for research and development and clinical applications through material standards. <i>Stem Cells Translational Medicine</i> , <b>2015</b> , 4, 217-23	6.9	29

55	A light-reflecting balloon catheter for atraumatic tissue defect repair. <i>Science Translational Medicine</i> , <b>2015</b> , 7, 306ra149	17.5	28
54	Fabrication of precise cylindrical three-dimensional tissue engineering scaffolds for in vitro and in vivo bone engineering applications. <i>Journal of Craniofacial Surgery</i> , <b>2003</b> , 14, 317-23	1.2	28
53	Isolation of Circulating Plasma Cells in Multiple Myeloma Using CD138 Antibody-Based Capture in a Microfluidic Device. <i>Scientific Reports</i> , <b>2017</b> , 7, 45681	4.9	26
52	Bioinspired Nanoparticulate Medical Glues for Minimally Invasive Tissue Repair. <i>Advanced Healthcare Materials</i> , <b>2015</b> , 4, 2587-96	10.1	26
51	Simple battery armor to protect against gastrointestinal injury from accidental ingestion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 16490-5	11.5	25
50	Towards a defined ECM and small molecule based monolayer culture system for the expansion of mouse and human intestinal stem cells. <i>Biomaterials</i> , <b>2018</b> , 154, 60-73	15.6	24
49	Beyond Hit-and-Run: Stem Cells Leave a Lasting Memory. <i>Cell Metabolism</i> , <b>2015</b> , 22, 541-3	24.6	22
48	Bioinspired polydimethylsiloxane-based composites with high shear resistance against wet tissue. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2016</b> , 61, 87-95	4.1	22
47	Harnessing single-cell genomics to improve the physiological fidelity of organoid-derived cell types. <i>BMC Biology</i> , <b>2018</b> , 16, 62	7.3	22
46	Therapeutic luminal coating of the intestine. <i>Nature Materials</i> , <b>2018</b> , 17, 834-842	27	22
45	A Growth-Accommodating Implant for Paediatric Applications. <i>Nature Biomedical Engineering</i> , <b>2017</b> , 1, 818-825	19	20
44	Engineering designer beta cells with a CRISPR-Cas9 conjugation platform. <i>Nature Communications</i> , <b>2020</b> , 11, 4043	17.4	20
43	BBB pathophysiology-independent delivery of siRNA in traumatic brain injury. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	20
42	Quantitative assessment of barriers to the clinical development and adoption of cellular therapies: A pilot study. <i>Journal of Tissue Engineering</i> , <b>2014</b> , 5, 2041731414551764	7.5	18
41	Controlled Inhibition of the Mesenchymal Stromal Cell Pro-inflammatory Secretome via Microparticle Engineering. <i>Stem Cell Reports</i> , <b>2016</b> , 6, 926-939	8	18
40	Combined surface micropatterning and reactive chemistry maximizes tissue adhesion with minimal inflammation. <i>Advanced Healthcare Materials</i> , <b>2014</b> , 3, 565-71	10.1	15
39	Self-assembled hydrogel fibers for sensing the multi-compartment intracellular milieu. <i>Scientific Reports</i> , <b>2014</b> , 4, 4466	4.9	14
38	Bioprocess decision support tool for scalable manufacture of extracellular vesicles. <i>Biotechnology and Bioengineering</i> , <b>2019</b> , 116, 307-319	4.9	11

37	Bioengineering tools to elucidate and control the fate of transplanted stem cells. <i>Biochemical Society Transactions</i> , <b>2014</b> , 42, 679-87	5.1	11
36	A portable chemotaxis platform for short and long term analysis. <i>PLoS ONE</i> , <b>2012</b> , 7, e44995	3.7	11
35	Preclinical and clinical evaluation of a novel synthetic bioresorbable, on-demand, light-activated sealant in vascular reconstruction. <i>Journal of Cardiovascular Surgery</i> , <b>2019</b> , 60, 599-611	0.7	10
34	A 3D culture platform enables development of zinc-binding prodrugs for targeted proliferation of T cells. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	10
33	Graft-implanted, enzyme responsive, tacrolimus-eluting hydrogel enables long-term survival of orthotopic porcine limb vascularized composite allografts: A proof of concept study. <i>PLoS ONE</i> , <b>2019</b> , 14, e0210914	3.7	9
32	Challenges in IBD Research: Novel Technologies. <i>Inflammatory Bowel Diseases</i> , <b>2019</b> , 25, S24-S30	4.5	8
31	A resistance-sensing mechanical injector for the precise delivery of liquids to target tissue. <i>Nature Biomedical Engineering</i> , <b>2019</b> , 3, 621-631	19	8
30	A Slick and Stretchable Surgical Adhesive. <i>New England Journal of Medicine</i> , <b>2017</b> , 377, 2092-2094	59.2	7
29	Controlling cell fate in vivo. <i>ChemBioChem</i> , <b>2009</b> , 10, 2308-10	3.8	7
28	A therapeutic convection-enhanced macroencapsulation device for enhancing T cell viability and insulin secretion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	7
27	The implementation of novel collaborative structures for the identification and resolution of barriers to pluripotent stem cell translation. <i>Stem Cells and Development</i> , <b>2013</b> , 22 Suppl 1, 63-72	4.4	6
26	Improved Speech Intelligibility in Subjects With Stable Sensorineural Hearing Loss Following Intratympanic Dosing of FX-322 in a Phase 1b Study. <i>Otology and Neurotology</i> , <b>2021</b> , 42, e849-e857	2.6	6
25	Zinc-dependent histone deacetylases drive neutrophil extracellular trap formation and potentiate local and systemic inflammation. <i>iScience</i> , <b>2021</b> , 24, 103256	6.1	5
24	Cabozantinib Unlocks Efficient Targeted Delivery of Neutrophil-Loaded Nanoparticles into Murine Prostate Tumors. <i>Molecular Cancer Therapeutics</i> , <b>2021</b> , 20, 438-449	6.1	4
23	A cell-based drug delivery platform for treating central nervous system inflammation. <i>Journal of Molecular Medicine</i> , <b>2021</b> , 99, 663-671	5.5	4
22	Acute Experimental Barrier Injury Triggers Ulcerative Colitis-Specific Innate Hyperresponsiveness and Ulcerative Colitis-Type Microbiome Changes in Humans. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , <b>2021</b> , 12, 1281-1296	7.9	4
21	Overview of Tissue Engineering Concepts and Applications <b>2013</b> , 1122-1137		3
20	Animal models for nickel allergy. <i>Nature Nanotechnology</i> , <b>2011</b> , 6, 533-533	28.7	3

19	Opinions and trends in biomaterials education: report of a 2003 Society for Biomaterials survey. <i>Journal of Biomedical Materials Research Part B</i> , <b>2004</b> , 70, 1-9		3
18	Decision Support Tools for Regenerative Medicine: Systematic Review. <i>Journal of Medical Internet Research</i> , <b>2018</b> , 20, e12448	7.6	3
17	The Need to Study, Mimic, and Target Stem Cell Niches <b>2017</b> , 3-13		2
16	In Reply. <i>Stem Cells Translational Medicine</i> , <b>2019</b> , 8, 739-740	6.9	1
15	Toxin-Mediated siRNA Delivery. <i>Trends in Pharmacological Sciences</i> , <b>2020</b> , 41, 511-513	13.2	1
14	Stomaching Notch. <i>EMBO Journal</i> , <b>2015</b> , 34, 2489-91	13	1
13	Micro/Nano-Engineering of Cells for Delivery of Therapeutics <b>2014</b> , 253-279		1
12	Cell surface conjugation of sialyl Lewis X induces a rolling response for mesenchymal stem cells <b>2009</b> ,		1
11	High-throughput organoid screening enables engineering of intestinal epithelial composition		1
10	Cabozantinib unlocks efficient in vivo targeted delivery of neutrophil-loaded nanoparticles into murine prostate tumors		1
9	Robust differentiation of human enteroendocrine cells from intestinal stem cells		1
8	Microparticle Encapsulation of a Prostate-targeted Biologic for the Treatment of Liver Metastases in a Preclinical Model of Castration-resistant Prostate Cancer. <i>Molecular Cancer Therapeutics</i> , <b>2020</b> , 19, 2353-2362	6.1	1
7	Robust differentiation of human enteroendocrine cells from intestinal stem cells.. <i>Nature Communications</i> , <b>2022</b> , 13, 261	17.4	0
6	Daily transient coating of the intestine leads to weight loss and improved glucose tolerance. <i>Metabolism: Clinical and Experimental</i> , <b>2022</b> , 126, 154917	12.7	0
5	Medical Adhesives: Bioinspired Nanoparticulate Medical Glues for Minimally Invasive Tissue Repair (Adv. Healthcare Mater. 16/2015). <i>Advanced Healthcare Materials</i> , <b>2015</b> , 4, 2318-2318	10.1	
4	Applications of Microfabrication and Microfluidic Techniques in Mesenchymal Stem Cell Research <b>2013</b> , 69-95		
3	Part C: Directed Differentiation of Human Embryonic Stem Cells into Osteoblasts Cells249-271		
2	A Radial Clutch Needle for Facile and Safe Tissue Compartment Access. <i>Medical Devices &amp; Sensors</i> , <b>2019</b> , 2, e10049	1.6	

- 1 An Blood-brain Barrier Model to Study the Penetration of Nanoparticles.. *Bio-protocol*, **2022**, 12, e4334 0.9