

# Ke Cheng

## List of Publications by Year in Descending Order

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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.

98  
papers

6,053  
citations

40  
h-index

77  
g-index

105  
ext. papers

7,602  
ext. citations

10.4  
avg, IF

6.04  
L-index

#	Paper	IF	Citations
98	Nanoparticles functionalized with stem cell secretome and CXCR4-overexpressing endothelial membrane for targeted osteoporosis therapy.. <i>Journal of Nanobiotechnology</i> , <b>2022</b> , 20, 35	9.4	3
97	Intrapericardial hydrogel injection generates high cell retention and augments therapeutic effects of mesenchymal stem cells in myocardial infarction. <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 131581	14.7	3
96	Graphene oxide leads to mitochondrial-dependent apoptosis by activating ROS-p53-mPTP pathway in intestinal cells.. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2022</b> , 146, 106206	5.6	0
95	A fluid-powered refillable origami heart pouch for minimally invasive delivery of cell therapies in rats and pigs. <i>Med</i> , <b>2021</b> , 2, 1253-1268	31.7	3
94	Extruded Mesenchymal Stem Cell Nanovesicles Are Equally Potent to Natural Extracellular Vesicles in Cardiac Repair. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 55767-55779	9.5	2
93	Cardiac Cell Therapy for Heart Repair: Should the Cells Be Left Out?. <i>Cells</i> , <b>2021</b> , 10,	7.9	9
92	Minimally invasive delivery of therapeutic agents by hydrogel injection into the pericardial cavity for cardiac repair. <i>Nature Communications</i> , <b>2021</b> , 12, 1412	17.4	47
91	Exosome-eluting stents for vascular healing after ischaemic injury. <i>Nature Biomedical Engineering</i> , <b>2021</b> , 5, 1174-1188	19	38
90	All Roads Lead to Rome (the Heart): Cell Retention and Outcomes From Various Delivery Routes of Cell Therapy Products to the Heart. <i>Journal of the American Heart Association</i> , <b>2021</b> , 10, e020402	6	12
89	Cardiac fibrosis: Myofibroblast-mediated pathological regulation and drug delivery strategies. <i>Advanced Drug Delivery Reviews</i> , <b>2021</b> , 173, 504-519	18.5	12
88	A Minimally Invasive Exosome Spray Repairs Heart after Myocardial Infarction. <i>ACS Nano</i> , <b>2021</b> ,	16.7	13
87	Bioengineering Technologies for Cardiac Regenerative Medicine. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 681705	5.8	8
86	Cell-mimicking nanodecoys neutralize SARS-CoV-2 and mitigate lung injury in a non-human primate model of COVID-19. <i>Nature Nanotechnology</i> , <b>2021</b> , 16, 942-951	28.7	24
85	Advances in biomaterials and regenerative medicine for primary ovarian insufficiency therapy. <i>Bioactive Materials</i> , <b>2021</b> , 6, 1957-1972	16.7	9
84	Visualizing cancer extravasation: from mechanistic studies to drug development. <i>Cancer and Metastasis Reviews</i> , <b>2021</b> , 40, 71-88	9.6	2
83	Self-Propelled and Near-Infrared-Phototoxic Photosynthetic Bacteria as Photothermal Agents for Hypoxia-Targeted Cancer Therapy. <i>ACS Nano</i> , <b>2021</b> , 15, 1100-1110	16.7	15
82	A stem cell-derived ovarian regenerative patch restores ovarian function and rescues fertility in rats with primary ovarian insufficiency. <i>Theranostics</i> , <b>2021</b> , 11, 8894-8908	12.1	0

81	Injection of ROS-Responsive Hydrogel Loaded with Basic Fibroblast Growth Factor into the Pericardial Cavity for Heart Repair. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2004377	15.6	22
80	Platelet membrane and stem cell exosome hybrid enhances cellular uptake and targeting to heart injury. <i>Nano Today</i> , <b>2021</b> , 39, 101210-101210	17.9	14
79	A Zebrafish Model of Metastatic Colonization Pinpoints Cellular Mechanisms of Circulating Tumor Cell Extravasation. <i>Frontiers in Oncology</i> , <b>2021</b> , 11, 641187	5.3	1
78	Enhancement of Bone Regeneration Through the Converse Piezoelectric Effect, A Novel Approach for Applying Mechanical Stimulation.. <i>Bioelectricity</i> , <b>2021</b> , 3, 255-271	2	3
77	Imaging and Isolation of Extravasation-Participating Endothelial and Melanoma Cells During Angiogenesis. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2265, 417-425	1.4	
76	Generation and Manipulation of Exosomes. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2158, 295-305	1.4	3
75	Resuscitating the Field of Cardiac Regeneration: Seeking Answers from Basic Biology.. <i>Advanced Biology</i> , <b>2021</b> , e2101133		
74	Atorvastatin enhances the therapeutic efficacy of mesenchymal stem cells-derived exosomes in acute myocardial infarction via up-regulating long non-coding RNA H19. <i>Cardiovascular Research</i> , <b>2020</b> , 116, 353-367	9.9	110
73	Light-triggered NO-releasing nanoparticles for treating mice with liver fibrosis. <i>Nano Research</i> , <b>2020</b> , 13, 2197-2202	10	9
72	Tumor cell-derived exosomes home to their cells of origin and can be used as Trojan horses to deliver cancer drugs. <i>Theranostics</i> , <b>2020</b> , 10, 3474-3487	12.1	114
71	Inhalation of lung spheroid cell secretome and exosomes promotes lung repair in pulmonary fibrosis. <i>Nature Communications</i> , <b>2020</b> , 11, 1064	17.4	95
70	Targeted anti-IL-1 $\beta$ platelet microparticles for cardiac detoxing and repair. <i>Science Advances</i> , <b>2020</b> , 6, eaay0589	14.3	31
69	An off-the-shelf artificial cardiac patch improves cardiac repair after myocardial infarction in rats and pigs. <i>Science Translational Medicine</i> , <b>2020</b> , 12,	17.5	71
68	Exosome and Biomimetic Nanoparticle Therapies for Cardiac Regenerative Medicine. <i>Current Stem Cell Research and Therapy</i> , <b>2020</b> , 15, 674-684	3.6	5
67	Cardiac Stromal Cell Patch Integrated with Engineered Microvessels Improves Recovery from Myocardial Infarction in Rats and Pigs. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 6309-6320	5.5	16
66	Recent Development in Therapeutic Cardiac Patches. <i>Frontiers in Cardiovascular Medicine</i> , <b>2020</b> , 7, 610364	5.4	18
65	Engineering better stem cell therapies for treating heart diseases. <i>Annals of Translational Medicine</i> , <b>2020</b> , 8, 569	3.2	5
64	Advances of exosome isolation techniques in lung cancer. <i>Molecular Biology Reports</i> , <b>2020</b> , 47, 7229-7251	1.8	3

63	Dermal exosomes containing miR-218-5p promote hair regeneration by regulating $\beta$ -catenin signaling. <i>Science Advances</i> , <b>2020</b> , 6, eaba1685	14.3	39
62	Long Non-coding RNA LINC00115 Contributes to the Progression of Colorectal Cancer by Targeting miR-489-3p via the PI3K/AKT/mTOR Pathway. <i>Frontiers in Genetics</i> , <b>2020</b> , 11, 567630	4.5	9
61	A pre-investigational new drug study of lung spheroid cell therapy for treating pulmonary fibrosis. <i>Stem Cells Translational Medicine</i> , <b>2020</b> , 9, 786-798	6.9	7
60	Bispecific Antibody Inhalation Therapy for Redirecting Stem Cells from the Lungs to Repair Heart Injury. <i>Advanced Science</i> , <b>2020</b> , 8, 2002127	13.6	7
59	Needle-Free Injection of Exosomes Derived from Human Dermal Fibroblast Spheroids Ameliorates Skin Photoaging. <i>ACS Nano</i> , <b>2019</b> , 13, 11273-11282	16.7	62
58	Circulating tumor cells exit circulation while maintaining multicellularity, augmenting metastatic potential. <i>Journal of Cell Science</i> , <b>2019</b> , 132,	5.3	18
57	Chemical Engineering of Cell Therapy for Heart Diseases. <i>Accounts of Chemical Research</i> , <b>2019</b> , 52, 1687-1696	14.96	31
56	Hyaluronic Acid Hydrogel Integrated with Mesenchymal Stem Cell-Secretome to Treat Endometrial Injury in a Rat Model of Asherman's Syndrome. <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, e1900411	10.1	48
55	Bispecific Antibody Therapy for Effective Cardiac Repair through Redirection of Endogenous Stem Cells. <i>Advanced Therapeutics</i> , <b>2019</b> , 2, 1900009	4.9	7
54	Cell and biomaterial-based approaches to uterus regeneration. <i>International Journal of Energy Production and Management</i> , <b>2019</b> , 6, 141-148	5.3	20
53	microRNA-21-5p dysregulation in exosomes derived from heart failure patients impairs regenerative potential. <i>Journal of Clinical Investigation</i> , <b>2019</b> , 129, 2237-2250	15.9	121
52	Antibody-Armed Platelets for the Regenerative Targeting of Endogenous Stem Cells. <i>Nano Letters</i> , <b>2019</b> , 19, 1883-1891	11.5	18
51	Cells and cell derivatives as drug carriers for targeted delivery. <i>Medicine in Drug Discovery</i> , <b>2019</b> , 3, 1000174	14	16
50	Platelet-Inspired Nanocells for Targeted Heart Repair After Ischemia/Reperfusion Injury. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1803567	15.6	58
49	Porous Organic Polymer-Coated Band-Aids for Phototherapy of Bacteria-Induced Wound Infection.. <i>ACS Applied Bio Materials</i> , <b>2019</b> , 2, 613-618	4.1	9
48	A New Era of Cardiac Cell Therapy: Opportunities and Challenges. <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, e1801011	10.1	37
47	Concise Review: Is Cardiac Cell Therapy Dead? Embarrassing Trial Outcomes and New Directions for the Future. <i>Stem Cells Translational Medicine</i> , <b>2018</b> , 7, 354-359	6.9	74
46	Targeted repair of heart injury by stem cells fused with platelet nanovesicles. <i>Nature Biomedical Engineering</i> , <b>2018</b> , 2, 17-26	19	101

45	Body builder: from synthetic cells to engineered tissues. <i>Current Opinion in Cell Biology</i> , <b>2018</b> , 54, 37-42	9	11
44	Targeting regenerative exosomes to myocardial infarction using cardiac homing peptide. <i>Theranostics</i> , <b>2018</b> , 8, 1869-1878	12.1	159
43	Platelets and their biomimetics for regenerative medicine and cancer therapies. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 7354-7365	7.3	46
42	Cardiac cell-integrated microneedle patch for treating myocardial infarction. <i>Science Advances</i> , <b>2018</b> , 4, eaat9365	14.3	111
41	Pretargeting and Bioorthogonal Click Chemistry-Mediated Endogenous Stem Cell Homing for Heart Repair. <i>ACS Nano</i> , <b>2018</b> , 12, 12193-12200	16.7	22
40	NIPAM-based Microgel Microenvironment Regulates the Therapeutic Function of Cardiac Stromal Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 37783-37796	9.5	19
39	Conjugation of haematopoietic stem cells and platelets decorated with anti-PD-1 antibodies augments anti-leukaemia efficacy. <i>Nature Biomedical Engineering</i> , <b>2018</b> , 2, 831-840	19	143
38	Cardiac Stem Cell Patch Integrated with Microengineered Blood Vessels Promotes Cardiomyocyte Proliferation and Neovascularization after Acute Myocardial Infarction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 33088-33096	9.5	48
37	Mesenchymal Stem Cell/Red Blood Cell-Inspired Nanoparticle Therapy in Mice with Carbon Tetrachloride-Induced Acute Liver Failure. <i>ACS Nano</i> , <b>2018</b> , 12, 6536-6544	16.7	76
36	A Regenerative Cardiac Patch Formed by Spray Painting of Biomaterials onto the Heart. <i>Tissue Engineering - Part C: Methods</i> , <b>2017</b> , 23, 146-155	2.9	42
35	Response by Luo et al to Letter Regarding Article, "Fabrication of Synthetic Mesenchymal Stem Cells for the Treatment of Acute Myocardial Infarction in Mice". <i>Circulation Research</i> , <b>2017</b> , 120, e48-e49 <sup>15.7</sup>		1
34	Fabrication of Synthetic Mesenchymal Stem Cells for the Treatment of Acute Myocardial Infarction in Mice. <i>Circulation Research</i> , <b>2017</b> , 120, 1768-1775	15.7	118
33	Intracoronary allogeneic cardiosphere-derived stem cells are safe for use in dogs with dilated cardiomyopathy. <i>Journal of Cellular and Molecular Medicine</i> , <b>2017</b> , 21, 1503-1512	5.6	21
32	Therapeutic microparticles functionalized with biomimetic cardiac stem cell membranes and secretome. <i>Nature Communications</i> , <b>2017</b> , 8, 13724	17.4	164
31	Heart Repair Using Nanogel-Encapsulated Human Cardiac Stem Cells in Mice and Pigs with Myocardial Infarction. <i>ACS Nano</i> , <b>2017</b> , 11, 9738-9749	16.7	96
30	Safety and Efficacy of Allogeneic Lung Spheroid Cells in a Mismatched Rat Model of Pulmonary Fibrosis. <i>Stem Cells Translational Medicine</i> , <b>2017</b> , 6, 1905-1916	6.9	16
29	Derivation of therapeutic lung spheroid cells from minimally invasive transbronchial pulmonary biopsies. <i>Respiratory Research</i> , <b>2017</b> , 18, 132	7.3	19
28	Angiopellosis as an Alternative Mechanism of Cell Extravasation. <i>Stem Cells</i> , <b>2017</b> , 35, 170-180	5.8	31

27	Magnetic Targeting of Stem Cell Derivatives Enhances Hepatic Engraftment into Structurally Normal Liver. <i>Cell Transplantation</i> , <b>2017</b> , 26, 1868-1877	4	6
26	Persistent spread of the rmtB 16S rRNA methyltransferase gene among Escherichia coli isolates from diseased food-producing animals in China. <i>Veterinary Microbiology</i> , <b>2016</b> , 188, 41-6	3.3	12
25	Effects of Matrix Metalloproteinases on the Performance of Platelet Fibrin Gel Spiked With Cardiac Stem Cells in Heart Repair. <i>Stem Cells Translational Medicine</i> , <b>2016</b> , 5, 793-803	6.9	22
24	Cellular postconditioning: allogeneic cardiosphere-derived cells reduce infarct size and attenuate microvascular obstruction when administered after reperfusion in pigs with acute myocardial infarction. <i>Circulation: Heart Failure</i> , <b>2015</b> , 8, 322-32	7.6	65
23	Cardiac regenerative potential of cardiosphere-derived cells from adult dog hearts. <i>Journal of Cellular and Molecular Medicine</i> , <b>2015</b> , 19, 1805-13	5.6	17
22	Isolation and cryopreservation of neonatal rat cardiomyocytes. <i>Journal of Visualized Experiments</i> , <b>2015</b> ,	1.6	22
21	Magnetically Targeted Stem Cell Delivery for Regenerative Medicine. <i>Journal of Functional Biomaterials</i> , <b>2015</b> , 6, 526-46	4.8	50
20	Intravenous Cardiac Stem Cell-Derived Exosomes Ameliorate Cardiac Dysfunction in Doxorubicin Induced Dilated Cardiomyopathy. <i>Stem Cells International</i> , <b>2015</b> , 2015, 960926	5	67
19	Adult Lung Spheroid Cells Contain Progenitor Cells and Mediate Regeneration in Rodents With Bleomycin-Induced Pulmonary Fibrosis. <i>Stem Cells Translational Medicine</i> , <b>2015</b> , 4, 1265-74	6.9	34
18	Rapid and Efficient Production of Coronary Artery Ligation and Myocardial Infarction in Mice Using Surgical Clips. <i>PLoS ONE</i> , <b>2015</b> , 10, e0143221	3.7	11
17	Exosomes as critical agents of cardiac regeneration triggered by cell therapy. <i>Stem Cell Reports</i> , <b>2014</b> , 2, 606-19	8	548
16	Magnetic targeting of cardiosphere-derived stem cells with ferumoxytol nanoparticles for treating rats with myocardial infarction. <i>Biomaterials</i> , <b>2014</b> , 35, 8528-39	15.6	82
15	Magnetic antibody-linked nanomatchmakers for therapeutic cell targeting. <i>Nature Communications</i> , <b>2014</b> , 5, 4880	17.4	93
14	Importance of cell-cell contact in the therapeutic benefits of cardiosphere-derived cells. <i>Stem Cells</i> , <b>2014</b> , 32, 2397-406	5.8	50
13	Allogeneic cardiospheres delivered via percutaneous transendocardial injection increase viable myocardium, decrease scar size, and attenuate cardiac dilatation in porcine ischemic cardiomyopathy. <i>PLoS ONE</i> , <b>2014</b> , 9, e113805	3.7	40
12	Relative roles of CD90 and c-kit to the regenerative efficacy of cardiosphere-derived cells in humans and in a mouse model of myocardial infarction. <i>Journal of the American Heart Association</i> , <b>2014</b> , 3, e001260	6	90
11	Transplantation of platelet gel spiked with cardiosphere-derived cells boosts structural and functional benefits relative to gel transplantation alone in rats with myocardial infarction. <i>Biomaterials</i> , <b>2012</b> , 33, 2872-9	15.6	37
10	Functional performance of human cardiosphere-derived cells delivered in an in situ polymerizable hyaluronan-gelatin hydrogel. <i>Biomaterials</i> , <b>2012</b> , 33, 5317-24	15.6	86

9	Intracoronary cardiosphere-derived cells for heart regeneration after myocardial infarction (CADUCEUS): a prospective, randomised phase 1 trial. <i>Lancet, The</i> , <b>2012</b> , 379, 895-904	40	1108
8	Dose-dependent functional benefit of human cardiosphere transplantation in mice with acute myocardial infarction. <i>Journal of Cellular and Molecular Medicine</i> , <b>2012</b> , 16, 2112-6	5.6	43
7	Intramyocardial injection of platelet gel promotes endogenous repair and augments cardiac function in rats with myocardial infarction. <i>Journal of the American College of Cardiology</i> , <b>2012</b> , 59, 256-64	15.1	40
6	Direct comparison of different stem cell types and subpopulations reveals superior paracrine potency and myocardial repair efficacy with cardiosphere-derived cells. <i>Journal of the American College of Cardiology</i> , <b>2012</b> , 59, 942-53	15.1	370
5	Safety and efficacy of allogeneic cell therapy in infarcted rats transplanted with mismatched cardiosphere-derived cells. <i>Circulation</i> , <b>2012</b> , 125, 100-12	16.7	218
4	Magnetic enhancement of cell retention, engraftment, and functional benefit after intracoronary delivery of cardiac-derived stem cells in a rat model of ischemia/reperfusion. <i>Cell Transplantation</i> , <b>2012</b> , 21, 1121-35	4	74
3	Magnetic targeting enhances engraftment and functional benefit of iron-labeled cardiosphere-derived cells in myocardial infarction. <i>Circulation Research</i> , <b>2010</b> , 106, 1570-81	15.7	208
2	Exploring cellular adhesion and differentiation in a micro-/nano-hybrid polymer scaffold. <i>Biotechnology Progress</i> , <b>2010</b> , 26, 838-46	2.8	45
1	Three-dimensional polymer scaffolds for high throughput cell-based assay systems. <i>Biomaterials</i> , <b>2008</b> , 29, 2802-12	15.6	59