

Ke Cheng

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

9,146
citations

44066

48
h-index

40976

93
g-index

105
all docs

105
docs citations

105
times ranked

8978
citing authors

#	ARTICLE	IF	CITATIONS
1	Intracoronary cardiosphere-derived cells for heart regeneration after myocardial infarction (CADUCEUS): a prospective, randomised phase 1 trial. <i>Lancet</i> , The, 2012, 379, 895-904.	13.7	1,294
2	Exosomes as Critical Agents of Cardiac Regeneration Triggered by Cell Therapy. <i>Stem Cell Reports</i> , 2014, 2, 606-619.	4.8	705
3	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> , 2012, 59, 942-953.	2.8	427
4	Targeting regenerative exosomes to myocardial infarction using cardiac homing peptide. <i>Theranostics</i> , 2018, 8, 1869-1878.	10.0	263
5	Safety and Efficacy of Allogeneic Cell Therapy in Infarcted Rats Transplanted With Mismatched Cardiosphere-Derived Cells. <i>Circulation</i> , 2012, 125, 100-112.	1.6	262
6	Inhalation of lung spheroid cell secretome and exosomes promotes lung repair in pulmonary fibrosis. <i>Nature Communications</i> , 2020, 11, 1064.	12.8	228
7	Magnetic Targeting Enhances Engraftment and Functional Benefit of Iron-Labeled Cardiosphere-Derived Cells in Myocardial Infarction. <i>Circulation Research</i> , 2010, 106, 1570-1581.	4.5	226
8	Tumor cell-derived exosomes home to their cells of origin and can be used as Trojan horses to deliver cancer drugs. <i>Theranostics</i> , 2020, 10, 3474-3487.	10.0	226
9	Conjugation of haematopoietic stem cells and platelets decorated with anti-PD-1 antibodies augments anti-leukaemia efficacy. <i>Nature Biomedical Engineering</i> , 2018, 2, 831-840.	22.5	220
10	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> , 2020, 116, 353-367.	3.8	213
11	Therapeutic microparticles functionalized with biomimetic cardiac stem cell membranes and secretome. <i>Nature Communications</i> , 2017, 8, 13724.	12.8	203
12	microRNA-21-5p dysregulation in exosomes derived from heart failure patients impairs regenerative potential. <i>Journal of Clinical Investigation</i> , 2019, 129, 2237-2250.	8.2	197
13	Cardiac cell-integrated microneedle patch for treating myocardial infarction. <i>Science Advances</i> , 2018, 4, eaat9365.	10.3	192
14	Targeted repair of heart injury by stem cells fused with platelet nanovesicles. <i>Nature Biomedical Engineering</i> , 2018, 2, 17-26.	22.5	161
15	Fabrication of Synthetic Mesenchymal Stem Cells for the Treatment of Acute Myocardial Infarction in Mice. <i>Circulation Research</i> , 2017, 120, 1768-1775.	4.5	158
16	Minimally invasive delivery of therapeutic agents by hydrogel injection into the pericardial cavity for cardiac repair. <i>Nature Communications</i> , 2021, 12, 1412.	12.8	155
17	Needle-Free Injection of Exosomes Derived from Human Dermal Fibroblast Spheroids Ameliorates Skin Photoaging. <i>ACS Nano</i> , 2019, 13, 11273-11282.	14.6	142
18	An off-the-shelf artificial cardiac patch improves cardiac repair after myocardial infarction in rats and pigs. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	131

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19	Heart Repair Using Nanogel-Encapsulated Human Cardiac Stem Cells in Mice and Pigs with Myocardial Infarction. <i>ACS Nano</i> , 2017, 11, 9738-9749.	14.6	128
20	Magnetic antibody-linked nanomatchmakers for therapeutic cell targeting. <i>Nature Communications</i> , 2014, 5, 4880.	12.8	119
21	Mesenchymal Stem Cell/Red Blood Cell-Inspired Nanoparticle Therapy in Mice with Carbon Tetrachloride-Induced Acute Liver Failure. <i>ACS Nano</i> , 2018, 12, 6536-6544.	14.6	109
22	Relative Roles of CD90 and cKit 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> , 2014, 3, e001260.	3.7	104
23	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> , 2019, 8, e1900411.	7.6	103
24	Cell-mimicking nanodecoys neutralize SARS-CoV-2 and mitigate lung injury in a non-human primate model of COVID-19. <i>Nature Nanotechnology</i> , 2021, 16, 942-951.	31.5	103
25	Magnetic targeting of cardiosphere-derived stem cells with ferumoxylol nanoparticles for treating rats with myocardial infarction. <i>Biomaterials</i> , 2014, 35, 8528-8539.	11.4	101
26	Functional performance of human cardiosphere-derived cells delivered in an in situ polymerizable hyaluronan-gelatin hydrogel. <i>Biomaterials</i> , 2012, 33, 5317-5324.	11.4	100
27	Exosomes decorated with a recombinant SARS-CoV-2 receptor-binding domain as an inhalable COVID-19 vaccine. <i>Nature Biomedical Engineering</i> , 2022, 6, 791-805.	22.5	100
28	Exosome-eluting stents for vascular healing after ischaemic injury. <i>Nature Biomedical Engineering</i> , 2021, 5, 1174-1188.	22.5	98
29	Cardiac fibrosis: Myofibroblast-mediated pathological regulation and drug delivery strategies. <i>Advanced Drug Delivery Reviews</i> , 2021, 173, 504-519.	13.7	97
30	Concise Review: Is Cardiac Cell Therapy Dead? Embarrassing Trial Outcomes and New Directions for the Future. <i>Stem Cells Translational Medicine</i> , 2018, 7, 354-359.	3.3	95
31	Platelet-Inspired Nanocells for Targeted Heart Repair After Ischemia/Reperfusion Injury. <i>Advanced Functional Materials</i> , 2019, 29, 1803567.	14.9	92
32	Dermal exosomes containing miR-218-5p promote hair regeneration by regulating β -catenin signaling. <i>Science Advances</i> , 2020, 6, eaba1685.	10.3	90
33	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> , 2012, 21, 1121-1135.	2.5	86
34	Cellular Postconditioning. <i>Circulation: Heart Failure</i> , 2015, 8, 322-332.	3.9	79
35	Intravenous Cardiac Stem Cell-Derived Exosomes Ameliorate Cardiac Dysfunction in Doxorubicin Induced Dilated Cardiomyopathy. <i>Stem Cells International</i> , 2015, 2015, 1-8.	2.5	78
36	Platelet membrane and stem cell exosome hybrids enhance cellular uptake and targeting to heart injury. <i>Nano Today</i> , 2021, 39, 101210.	11.9	71

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37	Platelets and their biomimetics for regenerative medicine and cancer therapies. <i>Journal of Materials Chemistry B</i> , 2018, 6, 7354-7365.	5.8	70
38	A Minimally Invasive Exosome Spray Repairs Heart after Myocardial Infarction. <i>ACS Nano</i> , 2021, 15, 11099-11111.	14.6	68
39	Three-dimensional polymer scaffolds for high throughput cell-based assay systems. <i>Biomaterials</i> , 2008, 29, 2802-2812.	11.4	66
40	Cardiac Stem Cell Patch Integrated with Microengineered Blood Vessels Promotes Cardiomyocyte Proliferation and Neovascularization after Acute Myocardial Infarction. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 33088-33096.	8.0	66
41	A New Era of Cardiac Cell Therapy: Opportunities and Challenges. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801011.	7.6	61
42	Magnetically Targeted Stem Cell Delivery for Regenerative Medicine. <i>Journal of Functional Biomaterials</i> , 2015, 6, 526-546.	4.4	60
43	Injection of ROS-Responsive Hydrogel Loaded with Basic Fibroblast Growth Factor into the Pericardial Cavity for Heart Repair. <i>Advanced Functional Materials</i> , 2021, 31, 2004377.	14.9	60
44	Adult Lung Spheroid Cells Contain Progenitor Cells and Mediate Regeneration in Rodents With Bleomycin-Induced Pulmonary Fibrosis. <i>Stem Cells Translational Medicine</i> , 2015, 4, 1265-1274.	3.3	56
45	A Regenerative Cardiac Patch Formed by Spray Painting of Biomaterials onto the Heart. <i>Tissue Engineering - Part C: Methods</i> , 2017, 23, 146-155.	2.1	56
46	Importance of Cell-Cell Contact in the Therapeutic Benefits of Cardiosphere-Derived Cells. <i>Stem Cells</i> , 2014, 32, 2397-2406.	3.2	55
47	Targeted anti-IL-1 β platelet microparticles for cardiac detoxing and repair. <i>Science Advances</i> , 2020, 6, eaay0589.	10.3	55
48	Exploring cellular adhesion and differentiation in a micro-nano hybrid polymer scaffold. <i>Biotechnology Progress</i> , 2010, 26, 838-846.	2.6	51
49	Chemical Engineering of Cell Therapy for Heart Diseases. <i>Accounts of Chemical Research</i> , 2019, 52, 1687-1696.	15.6	50
50	Dose-dependent functional benefit of human cardiosphere transplantation in mice with acute myocardial infarction. <i>Journal of Cellular and Molecular Medicine</i> , 2012, 16, 2112-2116.	3.6	49
51	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> , 2021, 10, e020402.	3.7	49
52	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> , 2014, 9, e113805.	2.5	48
53	Self-Propelled and Near-Infrared-Phototoxic Photosynthetic Bacteria as Photothermal Agents for Hypoxia-Targeted Cancer Therapy. <i>ACS Nano</i> , 2021, 15, 1100-1110.	14.6	48
54	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> , 2012, 59, 256-264.	2.8	47

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55	Recent Development in Therapeutic Cardiac Patches. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 610364.	2.4	47
56	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> , 2012, 33, 2872-2879.	11.4	44
57	Angiopellosis as an Alternative Mechanism of Cell Extravasation. <i>Stem Cells</i> , 2017, 35, 170-180.	3.2	42
58	Pretargeting and Bioorthogonal Click Chemistry-Mediated Endogenous Stem Cell Homing for Heart Repair. <i>ACS Nano</i> , 2018, 12, 12193-12200.	14.6	42
59	Derivation of therapeutic lung spheroid cells from minimally invasive transbronchial pulmonary biopsies. <i>Respiratory Research</i> , 2017, 18, 132.	3.6	38
60	Circulating tumor cells exit circulation while maintaining multicellularity augmenting metastatic potential. <i>Journal of Cell Science</i> , 2019, 132, .	2.0	36
61	Cell and biomaterial-based approaches to uterus regeneration. <i>International Journal of Energy Production and Management</i> , 2019, 6, 141-148.	3.7	34
62	Inhalable exosomes outperform liposomes as mRNA and protein drug carriers to the lung. , 2022, 1, 100002.		34
63	NIPAM-based Microgel Microenvironment Regulates the Therapeutic Function of Cardiac Stromal Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 37783-37796.	8.0	32
64	Antibody-Armed Platelets for the Regenerative Targeting of Endogenous Stem Cells. <i>Nano Letters</i> , 2019, 19, 1883-1891.	9.1	31
65	Extruded Mesenchymal Stem Cell Nanovesicles Are Equally Potent to Natural Extracellular Vesicles in Cardiac Repair. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 55767-55779.	8.0	30
66	Advances in biomaterials and regenerative medicine for primary ovarian insufficiency therapy. <i>Bioactive Materials</i> , 2021, 6, 1957-1972.	15.6	28
67	Safety and Efficacy of Allogeneic Lung Spheroid Cells in a Mismatched Rat Model of Pulmonary Fibrosis. <i>Stem Cells Translational Medicine</i> , 2017, 6, 1905-1916.	3.3	27
68	Cells and cell derivatives as drug carriers for targeted delivery. <i>Medicine in Drug Discovery</i> , 2019, 3, 100014.	4.5	26
69	Intracoronary allogeneic cardiosphere-derived stem cells are safe for use in dogs with dilated cardiomyopathy. <i>Journal of Cellular and Molecular Medicine</i> , 2017, 21, 1503-1512.	3.6	25
70	Cardiac Stromal Cell Patch Integrated with Engineered Microvessels Improves Recovery from Myocardial Infarction in Rats and Pigs. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 6309-6320.	5.2	25
71	Isolation and Cryopreservation of Neonatal Rat Cardiomyocytes. <i>Journal of Visualized Experiments</i> , 2015, , .	0.3	24
72	Enhancement of Bone Regeneration Through the Converse Piezoelectric Effect, A Novel Approach for Applying Mechanical Stimulation. <i>Bioelectricity</i> , 2021, 3, 255-271.	1.1	24

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73	Cardiac regenerative potential of cardiosphere-derived cells from adult dog hearts. <i>Journal of Cellular and Molecular Medicine</i> , 2015, 19, 1805-1813.	3.6	22
74	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> , 2016, 5, 793-803.	3.3	22
75	Porous Organic Polymer-Coated Band-Aids for Phototherapy of Bacteria-Induced Wound Infection. <i>ACS Applied Bio Materials</i> , 2019, 2, 613-618.	4.6	21
76	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> , 2020, 11, 567630.	2.3	20
77	Cardiac Cell Therapy for Heart Repair: Should the Cells Be Left Out?. <i>Cells</i> , 2021, 10, 641.	4.1	20
78	Nanoparticles functionalized with stem cell secretome and CXCR4-overexpressing endothelial membrane for targeted osteoporosis therapy. <i>Journal of Nanobiotechnology</i> , 2022, 20, 35.	9.1	20
79	Visualizing cancer extravasation: from mechanistic studies to drug development. <i>Cancer and Metastasis Reviews</i> , 2021, 40, 71-88.	5.9	19
80	Light-triggered NO-releasing nanoparticles for treating mice with liver fibrosis. <i>Nano Research</i> , 2020, 13, 2197-2202.	10.4	18
81	Advances of exosome isolation techniques in lung cancer. <i>Molecular Biology Reports</i> , 2020, 47, 7229-7251.	2.3	17
82	A pre-investigational new drug study of lung spheroid cell therapy for treating pulmonary fibrosis. <i>Stem Cells Translational Medicine</i> , 2020, 9, 786-798.	3.3	16
83	Bispecific Antibody Inhalation Therapy for Redirecting Stem Cells from the Lungs to Repair Heart Injury. <i>Advanced Science</i> , 2021, 8, 2002127.	11.2	16
84	Persistent spread of the rmtB 16S rRNA methyltransferase gene among Escherichia coli isolates from diseased food-producing animals in China. <i>Veterinary Microbiology</i> , 2016, 188, 41-46.	1.9	15
85	Body builder: from synthetic cells to engineered tissues. <i>Current Opinion in Cell Biology</i> , 2018, 54, 37-42.	5.4	15
86	Bioengineering Technologies for Cardiac Regenerative Medicine. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 681705.	4.1	15
87	Intrapericardial hydrogel injection generates high cell retention and augments therapeutic effects of mesenchymal stem cells in myocardial infarction. <i>Chemical Engineering Journal</i> , 2022, 427, 131581.	12.7	15
88	Exosome and Biomimetic Nanoparticle Therapies for Cardiac Regenerative Medicine. <i>Current Stem Cell Research and Therapy</i> , 2020, 15, 674-684.	1.3	13
89	Rapid and Efficient Production of Coronary Artery Ligation and Myocardial Infarction in Mice Using Surgical Clips. <i>PLoS ONE</i> , 2015, 10, e0143221.	2.5	12
90	Engineering stem cell therapeutics for cardiac repair. <i>Journal of Molecular and Cellular Cardiology</i> , 2022, 171, 56-68.	1.9	12

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91	A fluid-powered refillable origami heart pouch for minimally invasive delivery of cell therapies in rats and pigs. <i>Med</i> , 2021, 2, 1253-1268.e4.	4.4	11
92	A stem cell-derived ovarian regenerative patch restores ovarian function and rescues fertility in rats with primary ovarian insufficiency. <i>Theranostics</i> , 2021, 11, 8894-8908.	10.0	10
93	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> , 2022, 146, 106206.	2.8	9
94	Engineering better stem cell therapies for treating heart diseases. <i>Annals of Translational Medicine</i> , 2020, 8, 569-569.	1.7	8
95	Magnetic Targeting of Stem Cell Derivatives Enhances Hepatic Engraftment into Structurally Normal Liver. <i>Cell Transplantation</i> , 2017, 26, 1868-1877.	2.5	7
96	Bispecific Antibody Therapy for Effective Cardiac Repair through Redirection of Endogenous Stem Cells. <i>Advanced Therapeutics</i> , 2019, 2, 1900009.	3.2	7
97	Gecko-Inspired Adhesives with Asymmetrically Tilting-Oriented Micropillars. <i>Langmuir</i> , 2022, 38, 8890-8898.	3.5	7
98	A Zebrafish Model of Metastatic Colonization Pinpoints Cellular Mechanisms of Circulating Tumor Cell Extravasation. <i>Frontiers in Oncology</i> , 2021, 11, 641187.	2.8	6
99	Generation and Manipulation of Exosomes. <i>Methods in Molecular Biology</i> , 2021, 2158, 295-305.	0.9	5
100	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> , 2017, 120, e48-e49.	4.5	1
101	Imaging and Isolation of Extravasation-Participating Endothelial and Melanoma Cells During Angiogenesis. <i>Methods in Molecular Biology</i> , 2021, 2265, 417-425.	0.9	0
102	Resuscitating the Field of Cardiac Regeneration: Seeking Answers from Basic Biology. <i>Advanced Biology</i> , 2022, 6, 2101133.	2.5	0