

Phillip C Yang

List of Publications by Year in descending order

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94
papers

4,054
citations

136950

32
h-index

123424

61
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97
all docs

97
docs citations

97
times ranked

5981
citing authors

#	ARTICLE	IF	CITATIONS
1	Epicardial FSTL1 reconstitution regenerates the adult mammalian heart. <i>Nature</i> , 2015, 525, 479-485.	27.8	402
2	Positive contrast magnetic resonance imaging of cells labeled with magnetic nanoparticles. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 999-1005.	3.0	390
3	Comparison of Reporter Gene and Iron Particle Labeling for Tracking Fate of Human Embryonic Stem Cells and Differentiated Endothelial Cells in Living Subjects. <i>Stem Cells</i> , 2008, 26, 864-873.	3.2	216
4	Collagen Matrices Enhance Survival of Transplanted Cardiomyoblasts and Contribute to Functional Improvement of Ischemic Rat Hearts. <i>Circulation</i> , 2006, 114, I-167-I-173.	1.6	188
5	Imaging Survival and Function of Transplanted Cardiac Resident Stem Cells. <i>Journal of the American College of Cardiology</i> , 2009, 53, 1229-1240.	2.8	170
6	Exosomes Generated From iPSC-Derivatives. <i>Circulation Research</i> , 2017, 120, 407-417.	4.5	140
7	Paracrine Effects of the Pluripotent Stem Cell-Derived Cardiac Myocytes Salvage the Injured Myocardium. <i>Circulation Research</i> , 2017, 121, e22-e36.	4.5	124
8	Concise Review: Review and Perspective of Cell Dosage and Routes of Administration From Preclinical and Clinical Studies of Stem Cell Therapy for Heart Disease. <i>Stem Cells Translational Medicine</i> , 2016, 5, 186-191.	3.3	109
9	Dual in vivo magnetic resonance evaluation of magnetically labeled mouse embryonic stem cells and cardiac function at 1.5 t. <i>Magnetic Resonance in Medicine</i> , 2006, 55, 203-209.	3.0	106
10	Quantitative Tissue Characterization of Infarct Core and Border Zone in Patients With Ischemic Cardiomyopathy by Magnetic Resonance Is Associated With Future Cardiovascular Events. <i>Journal of the American College of Cardiology</i> , 2010, 55, 2762-2768.	2.8	104
11	Mitochondria-Rich Extracellular Vesicles From Autologous Stem Cell-Derived Cardiomyocytes Restore Energetics of Ischemic Myocardium. <i>Journal of the American College of Cardiology</i> , 2021, 77, 1073-1088.	2.8	102
12	Rationale and Design of the CONCERT-HF Trial (Combination of Mesenchymal and c-kit ⁺) Tj ETQq0 0 0 r gBT /Overlock 10 1	4.5	94
13	A Phase II study of autologous mesenchymal stromal cells and c-kit positive cardiac cells, alone or in combination, in patients with ischaemic heart failure: the CCTRNCERT-HF trial. <i>European Journal of Heart Failure</i> , 2021, 23, 661-674.	7.1	89
14	Comparison of Optical Bioluminescence Reporter Gene and Superparamagnetic Iron Oxide MR Contrast Agent as Cell Markers for Noninvasive Imaging of Cardiac Cell Transplantation. <i>Molecular Imaging and Biology</i> , 2009, 11, 178-187.	2.6	84
15	In vitro comparison of the biological effects of three transfection methods for magnetically labeling mouse embryonic stem cells with ferumoxides. <i>Magnetic Resonance in Medicine</i> , 2007, 57, 1173-1179.	3.0	72
16	Exosomes From Induced Pluripotent Stem Cell-Derived Cardiomyocytes Promote Autophagy for Myocardial Repair. <i>Journal of the American Heart Association</i> , 2020, 9, e014345.	3.7	71
17	Stem Cell-Derived Exosomes Protect Astrocyte Cultures From in vitro Ischemia and Decrease Injury as Post-stroke Intravenous Therapy. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 394.	3.7	64
18	Aligned nanofibrillar collagen scaffolds " Guiding lymphangiogenesis for treatment of acquired lymphedema. <i>Biomaterials</i> , 2016, 102, 259-267.	11.4	55

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19	Infection-resistant MRI-visible scaffolds for tissue engineering applications. <i>BiolImpacts</i> , 2016, 6, 111-115.	1.5	55
20	Quantitative characterization of myocardial infarction by cardiovascular magnetic resonance predicts future cardiovascular events in patients with ischemic cardiomyopathy. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2008, 10, 17.	3.3	51
21	Magnetic Nanoparticles for Targeting and Imaging of Stem Cells in Myocardial Infarction. <i>Stem Cells International</i> , 2016, 2016, 1-9.	2.5	50
22	TIME Trial: Effect of Timing of Stem Cell Delivery Following ST-Elevation Myocardial Infarction on the Recovery of Global and Regional Left Ventricular Function. <i>Circulation Research</i> , 2018, 122, 479-488.	4.5	50
23	Sacubitril/Valsartan Improves Cardiac Function and Decreases Myocardial Fibrosis Via Downregulation of Exosomal miR-181a in a Rodent Chronic Myocardial Infarction Model. <i>Journal of the American Heart Association</i> , 2020, 9, e015640.	3.7	50
24	Direct Evaluation of Myocardial Viability and Stem Cell Engraftment Demonstrates Salvage of the Injured Myocardium. <i>Circulation Research</i> , 2015, 116, e40-50.	4.5	49
25	Relationship between Echocardiographic and Magnetic Resonance Derived Measures of Right Ventricular Size and Function in Patients with Pulmonary Hypertension. <i>Journal of the American Society of Echocardiography</i> , 2014, 27, 405-412.	2.8	46
26	Evaluation of Cell Therapy on Exercise Performance and Limb Perfusion in Peripheral Artery Disease. <i>Circulation</i> , 2017, 135, 1417-1428.	1.6	46
27	Human Amniotic Mesenchymal Stem Cell-Derived Induced Pluripotent Stem Cells May Generate a Universal Source of Cardiac Cells. <i>Stem Cells and Development</i> , 2012, 21, 2798-2808.	2.1	42
28	Mitochondria-Rich Extracellular Vesicles Rescue Patient-Specific Cardiomyocytes From Doxorubicin Injury. <i>JACC: CardioOncology</i> , 2021, 3, 428-440.	4.0	42
29	The Promise and Challenge of Induced Pluripotent Stem Cells for Cardiovascular Applications. <i>JACC Basic To Translational Science</i> , 2016, 1, 510-523.	4.1	41
30	In vivo serial evaluation of superparamagnetic iron oxide labeled stem cells by off-resonance positive contrast. <i>Magnetic Resonance in Medicine</i> , 2008, 60, 1269-1275.	3.0	40
31	Induced Pluripotent Stem Cell (iPSC)-Derived Exosomes for Precision Medicine in Heart Failure. <i>Circulation Research</i> , 2018, 122, 661-663.	4.5	39
32	Apelin Enhances Directed Cardiac Differentiation of Mouse and Human Embryonic Stem Cells. <i>PLoS ONE</i> , 2012, 7, e38328.	2.5	36
33	miR-106a-363 cluster in extracellular vesicles promotes endogenous myocardial repair via Notch3 pathway in ischemic heart injury. <i>Basic Research in Cardiology</i> , 2021, 116, 19.	5.9	34
34	Real-time interactive coronary MRA. <i>Magnetic Resonance in Medicine</i> , 2001, 46, 430-435.	3.0	33
35	Novel MRI Contrast Agent from Magnetotactic Bacteria Enables In Vivo Tracking of iPSC-derived Cardiomyocytes. <i>Scientific Reports</i> , 2016, 6, 26960.	3.3	33
36	3D image-based navigators for coronary MR angiography. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 1874-1883.	3.0	33

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37	Peripheral Blood Cytokine Levels After Acute Myocardial Infarction. <i>Circulation Research</i> , 2017, 120, 1947-1957.	4.5	33
38	Multi-cellular interactions sustain long-term contractility of human pluripotent stem cell-derived cardiomyocytes. <i>American Journal of Translational Research (discontinued)</i> , 2014, 6, 724-35.	0.0	32
39	Multimodality Evaluation of the Viability of Stem Cells Delivered Into Different Zones of Myocardial Infarction. <i>Circulation: Cardiovascular Imaging</i> , 2008, 1, 6-13.	2.6	31
40	Self-refocused spatial-spectral pulse for positive contrast imaging of cells labeled with SPIO nanoparticles. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 183-192.	3.0	30
41	Manganese-guided cellular MRI of human embryonic stem cell and human bone marrow stromal cell viability. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 1047-1054.	3.0	28
42	Positive contrast with alternating repetition time SSFP (PARTS): A fast imaging technique for SPIO-labeled cells. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 427-437.	3.0	28
43	Dual Manganese-Enhanced and Delayed Gadolinium-Enhanced MRI Detects Myocardial Border Zone Injury in a Pig Ischemia-Reperfusion Model. <i>Circulation: Cardiovascular Imaging</i> , 2011, 4, 574-582.	2.6	28
44	Peri-Infarct Ischemia Determined by Cardiovascular Magnetic Resonance Evaluation of Myocardial Viability and Stress Perfusion Predicts Future Cardiovascular Events in Patients with Severe Ischemic Cardiomyopathy. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2006, 8, 773-779.	3.3	27
45	In vivo molecular MRI of cell survival and teratoma formation following embryonic stem cell transplantation into the injured murine myocardium. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 1374-1381.	3.0	27
46	Multimodal evaluation of in vivo magnetic resonance imaging of myocardial restoration by mouse embryonic stem cells. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2008, 136, 1028-1037.e1.	0.8	25
47	Therapeutic Applications of Extracellular Vesicles for Myocardial Repair. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 758050.	2.4	25
48	Allogeneic Mesenchymal Cell Therapy in Anthracycline-Induced Cardiomyopathy Heart Failure Patients. <i>JACC: CardioOncology</i> , 2020, 2, 581-595.	4.0	24
49	Manganese-Enhanced Magnetic Resonance Imaging Enables In Vivo Confirmation of Peri-Infarct Restoration Following Stem Cell Therapy in a Porcine Ischemia-Reperfusion Model. <i>Journal of the American Heart Association</i> , 2015, 4, .	3.7	21
50	Rationale and Design of Sodium Tanshinone IIA Sulfonate in Left Ventricular Remodeling Secondary to Acute Myocardial Infarction (STAMP-REMODELING) Trial: A Randomized Controlled Study. <i>Cardiovascular Drugs and Therapy</i> , 2015, 29, 535-542.	2.6	19
51	Bone marrow cell characteristics associated with patient profile and cardiac performance outcomes in the LateTIME-Cardiovascular Cell Therapy Research Network (CCTRN) trial. <i>American Heart Journal</i> , 2016, 179, 142-150.	2.7	18
52	Circulating Biomarkers to Identify Responders in Cardiac Cell therapy. <i>Scientific Reports</i> , 2017, 7, 4419.	3.3	18
53	Rationale and Design of the SENECA (StEm cell iNjECTION in cAncer survivors) Trial. <i>American Heart Journal</i> , 2018, 201, 54-62.	2.7	17
54	Identification of cardiovascular risk factors associated with bone marrow cell subsets in patients with STEMI: a biorepository evaluation from the CCTRN TIME and LateTIME clinical trials. <i>Basic Research in Cardiology</i> , 2017, 112, 3.	5.9	16

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55	Challenging the complementarity of different metrics of left atrial function: insight from a cardiomyopathy-based study. <i>European Heart Journal Cardiovascular Imaging</i> , 2017, 18, 1153-1162.	1.2	16
56	Manganese-Enhanced T ₁ Mapping in the Myocardium of Normal and Infarcted Hearts. <i>Contrast Media and Molecular Imaging</i> , 2018, 2018, 1-13.	0.8	15
57	Advanced glycation end-product (AGE)-albumin from activated macrophage is critical in human mesenchymal stem cells survival and post-ischemic reperfusion injury. <i>Scientific Reports</i> , 2017, 7, 11593.	3.3	14
58	Graphite Oxide Nanoparticles with Diameter Greater than 20 nm Are Biocompatible with Mouse Embryonic Stem Cells and Can Be Used in a Tissue Engineering System. <i>Small</i> , 2014, 10, 1479-1484.	10.0	13
59	Baseline assessment and comparison of arterial anatomy, hyperemic flow, and skeletal muscle perfusion in peripheral artery disease: The Cardiovascular Cell Therapy Research Network's Patients with Intermittent Claudication Injected with ALDH Bright Cells (CCTRN PACE) study. <i>American Heart Journal</i> , 2017, 183, 24-34.	2.7	13
60	Differential protective effects of varying degrees of hypoxia on the cytotoxicities of etoposide and bleomycin. <i>Cancer Chemotherapy and Pharmacology</i> , 1987, 19, 282-6.	2.3	12
61	Multimodality Molecular Imaging of Cardiac Cell Transplantation: Part I. Reporter Gene Design, Characterization, and Optical in Vivo Imaging of Bone Marrow Stromal Cells after Myocardial Infarction. <i>Radiology</i> , 2016, 280, 815-825.	7.3	12
62	Multimodality Molecular Imaging of Cardiac Cell Transplantation: Part II. In Vivo Imaging of Bone Marrow Stromal Cells in Swine with PET/CT and MR Imaging. <i>Radiology</i> , 2016, 280, 826-836.	7.3	12
63	Myocardial Edema on T2-Weighted MRI. <i>Circulation Research</i> , 2017, 121, 326-328.	4.5	12
64	Comparative analysis on the anti-inflammatory/immune effect of mesenchymal stem cell therapy for the treatment of pulmonary arterial hypertension. <i>Scientific Reports</i> , 2021, 11, 2012.	3.3	12
65	Efficacy of Danlou Tablet in Patients with Non-ST Elevation Acute Coronary Syndrome Undergoing Percutaneous Coronary Intervention: Results from a Multicentre, Placebo-Controlled, Randomized Trial. <i>Evidence-based Complementary and Alternative Medicine</i> , 2016, 2016, 1-10.	1.2	11
66	Apelin-13 infusion salvages the peri-infarct region to preserve cardiac function after severe myocardial injury. <i>International Journal of Cardiology</i> , 2016, 222, 361-367.	1.7	10
67	Defining genotype-phenotype relationships in patients with hypertrophic cardiomyopathy using cardiovascular magnetic resonance imaging. <i>PLoS ONE</i> , 2019, 14, e0217612.	2.5	10
68	Manganese-enhanced T1 mapping to quantify myocardial viability: validation with 18F-fluorodeoxyglucose positron emission tomography. <i>Scientific Reports</i> , 2020, 10, 2018.	3.3	10
69	Stem Cell and Exosome Therapy in Pulmonary Hypertension. <i>Korean Circulation Journal</i> , 2022, 52, 110.	1.9	10
70	Is Reliable In Vivo Detection of Stem Cell Viability Possible in a Large Animal Model of Myocardial Injury?. <i>Circulation</i> , 2012, 126, 388-390.	1.6	9
71	Cardiovascular MRI for stem cell therapy. <i>Current Cardiology Reports</i> , 2007, 9, 45-50.	2.9	8
72	Telmisartan in the diabetic murine model of acute myocardial infarction: dual contrast manganese-enhanced and delayed enhancement MRI evaluation of the peri-infarct region. <i>Cardiovascular Diabetology</i> , 2016, 15, 24.	6.8	7

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73	Whole-heart coronary MR angiography using a 3D cones phyllotaxis trajectory. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 1092-1103.	3.0	7
74	Meta-analysis of short- and long-term efficacy of mononuclear cell transplantation in patients with myocardial infarction. <i>American Heart Journal</i> , 2020, 220, 155-175.	2.7	7
75	Recommendations for nomenclature and definition of cell products intended for human cardiovascular use. <i>Cardiovascular Research</i> , 2022, 118, 2428-2436.	3.8	6
76	Ferumoxylol-enhanced cardiovascular magnetic resonance detection of early stage acute myocarditis. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019, 21, 77.	3.3	5
77	Magnetic resonance coronary angiography. <i>Current Cardiology Reports</i> , 2003, 5, 55-62.	2.9	4
78	Theranostic effect of serial manganese-enhanced magnetic resonance imaging of human embryonic stem cell derived teratoma. <i>Magnetic Resonance in Medicine</i> , 2012, 68, 595-599.	3.0	4
79	Abstract 19831: In Vivo Molecular Imaging of Human Pluripotent Stem Cell-derived Cardiomyocytes in a Murine Myocardial Injury Model via a Safe Harbor Integration of a Reporter Gene. <i>Circulation</i> , 2014, 130, .	1.6	4
80	Molecular Imaging of Stem Cells and Exosomes for Myocardial Regeneration. <i>Current Cardiovascular Imaging Reports</i> , 2017, 10, 1.	0.6	3
81	Dual Contrast Manganese-Enhanced MRI and Gadolinium Delayed-Enhanced MRI Detect Heterogenous Myocardial Viability in Ischemic Cardiomyopathy. <i>JACC: Cardiovascular Imaging</i> , 2021, 14, 1474-1476.	5.3	3
82	Bone Marrow Cell Therapy in Clinical Trials: A Review of the Literature. <i>Reviews on Recent Clinical Trials</i> , 2012, 7, 204-213.	0.8	3
83	Myocardial viability of the peri-infarct region measured by T1 mapping post manganese-enhanced MRI correlates with LV dysfunction. <i>International Journal of Cardiology</i> , 2019, 281, 8-14.	1.7	2
84	Combined T2 preparation and multidimensional outer volume suppression for coronary artery imaging with 3D cones trajectories. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 2221-2231.	3.0	1
85	Peripheral Blood Biomarkers Associated With Improved Functional Outcome in Patients With Chronic Left Ventricular Dysfunction: A Biorepository Evaluation of the FOCUS-CCTRN Trial. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 698088.	2.4	1
86	Imaging cellular pharmacokinetics of 18F-FDG and 6-NBDG uptake by inflammatory and stem cells. <i>PLoS ONE</i> , 2018, 13, e0192662.	2.5	1
87	T1 Map of Post-Myocardial Infarction for Precise Tissue Characterization. <i>Circulation: Cardiovascular Imaging</i> , 2017, 10, .	2.6	0
88	10...Manganese-enhanced T1 mapping in myocardial infarction: validation with ¹⁸ F-FDG PET/MR. , 2018, , .		0
89	Cardiovascular Magnetic Resonance Angiography. , 2019, , 236-281.		0
90	Exosomes as natural nanocarriers for therapeutic and diagnostic use in cardiovascular diseases. , 2020, , 71-88.		0

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91	Novel MRI Contrast from Magnetotactic Bacteria to Evaluate In Vivo Stem Cell Engraftment. , 2018, , 365-380.		0
92	Abstract 17203: Exosomes From Induced Pluripotent Stem Cell-Derived Cardiomyocytes Salvage the Injured Myocardium by Modulation of Autophagy. Circulation, 2018, 138, .	1.6	0
93	Induced pluripotent stem cellâ€derived extracellular vesicles in regenerative medicine. , 2022, , 507-527.		0
94	Abstract 21129: Arterial Anatomy and Functional Performance in Peripheral Artery Disease: Cardiovascular Cell Therapy Research Network Patients With Intermittent Claudication Injected With ALDH Bright Cells: CCTRN PACE. Circulation, 2017, 136, .	1.6	0