

Christopher A Fraker

List of Publications by Year in descending order

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42
papers

1,853
citations

257450

24
h-index

330143

37
g-index

43
all docs

43
docs citations

43
times ranked

2286
citing authors

#	ARTICLE	IF	CITATIONS
1	Determining chemical exchange rate constants in nanoemulsions using nuclear magnetic resonance. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 19244-19254.	2.8	2
2	The Importance of Proper Oxygenation in 3D Culture. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 634403.	4.1	20
3	Natural Killer Cells as Key Mediators in Type I Diabetes Immunopathology. <i>Frontiers in Immunology</i> , 2021, 12, 722979.	4.8	12
4	Optical sensor arrays designed for guided manufacture of perfluorocarbon nanoemulsions with a non-synthetic stabilizer. <i>Acta Biomaterialia</i> , 2021, 136, 558-569.	8.3	3
5	Reverse-dialysis can be misleading for drug release studies in emulsions as demonstrated by NMR dilution experiments. <i>International Journal of Pharmaceutics</i> , 2021, 608, 121093.	5.2	1
6	Rapid quantification of isoflurane in anesthetic nanoemulsions using Attenuated Total Reflectance Fourier Transform Infrared Spectroscopy (ATR-FTIR). <i>Vibrational Spectroscopy</i> , 2020, 109, 103095.	2.2	1
7	Long-term culture of human pancreatic slices as a model to study real-time islet regeneration. <i>Nature Communications</i> , 2020, 11, 3265.	12.8	34
8	A Double Fail-Safe Approach to Prevent Tumorigenesis and Select Pancreatic β^2 Cells from Human Embryonic Stem Cells. <i>Stem Cell Reports</i> , 2019, 12, 611-623.	4.8	32
9	2139-P: Real-Time Monitoring and High-Resolution Analysis of Human Pancreatic Ductal Plasticity. <i>Diabetes</i> , 2019, 68, .	0.6	0
10	Stable perfluorocarbon emulsions for the delivery of halogenated ether anesthetics. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 172, 797-805.	5.0	5
11	Manganese oxide particles as cytoprotective, oxygen generating agents. <i>Acta Biomaterialia</i> , 2017, 59, 327-337.	8.3	27
12	The Folate Cycle As a Cause of Natural Killer Cell Dysfunction and Viral Etiology in Type 1 Diabetes. <i>Frontiers in Endocrinology</i> , 2017, 8, 315.	3.5	27
13	Corneal elasticity after oxygen enriched high intensity corneal cross linking assessed using atomic force microscopy. <i>Experimental Eye Research</i> , 2016, 153, 51-55.	2.6	18
14	The Expanding Role of Natural Killer Cells in Type 1 Diabetes and Immunotherapy. <i>Current Diabetes Reports</i> , 2016, 16, 109.	4.2	26
15	Device design and materials optimization of conformal coating for islets of Langerhans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10514-10519.	7.1	167
16	Influence of In Vitro and In Vivo Oxygen Modulation on β^2 Cell Differentiation From Human Embryonic Stem Cells. <i>Stem Cells Translational Medicine</i> , 2014, 3, 277-289.	3.3	38
17	Synthesis of macroporous poly(dimethylsiloxane) scaffolds for tissue engineering applications. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2013, 24, 1041-1056.	3.5	58
18	A Physiological Pattern of Oxygenation Using Perfluorocarbon-Based Culture Devices Maximizes Pancreatic Islet Viability and Enhances β^2 -Cell Function. <i>Cell Transplantation</i> , 2013, 22, 1723-1733.	2.5	27

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19	Macroporous Three-Dimensional PDMS Scaffolds for Extrahepatic Islet Transplantation. <i>Cell Transplantation</i> , 2013, 22, 1123-1135.	2.5	112
20	Preventing hypoxia-induced cell death in beta cells and islets via hydrolytically activated, oxygen-generating biomaterials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 4245-4250.	7.1	335
21	Optimization of perfluoro nano-scale emulsions: The importance of particle size for enhanced oxygen transfer in biomedical applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 98, 26-35.	5.0	47
22	Perfluorinated alginate for cellular encapsulation. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 1963-1971.	4.0	25
23	Complementary Methods for the Determination of Dissolved Oxygen Content in Perfluorocarbon Emulsions and Other Solutions. <i>Journal of Physical Chemistry B</i> , 2011, 115, 10547-10552.	2.6	35
24	Covalent stabilization of alginate hydrogel beads via Staudinger ligation: Assessment of poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 T	4.6	22
25	TAT-Mediated Transduction of MafA Protein In Utero Results in Enhanced Pancreatic Insulin Expression and Changes in Islet Morphology. <i>PLoS ONE</i> , 2011, 6, e22364.	2.5	14
26	Oxygen: a master regulator of pancreatic development?. <i>Biology of the Cell</i> , 2009, 101, 431-440.	2.0	33
27	Modeling and in vitro and in vivo characterization of a tissue engineered pancreatic substitute. <i>Journal of Combinatorial Optimization</i> , 2009, 17, 54-73.	1.3	4
28	Quantitative Assessment of Islet Cell Products: Estimating the Accuracy of the Existing Protocol and Accounting for Islet Size Distribution. <i>Cell Transplantation</i> , 2009, 18, 1223-1235.	2.5	61
29	A Novel Cell Culture Platform for In-Vitro Enhancement of Oxygen Delivery Leads to Improved Physiological Function of Isolated Islets of Langerhans. <i>IFMBE Proceedings</i> , 2009, , 163-164.	0.3	1
30	Optimization of Perfluorocarbon Emulsions for Cellular Encapsulation. <i>IFMBE Proceedings</i> , 2009, , 165-166.	0.3	0
31	Design and Development of a Highly Macroporous Silicone Scaffold as a Bioartificial Pancreas for Type 1 Diabetes. <i>IFMBE Proceedings</i> , 2009, , 233-234.	0.3	0
32	Rapamycin Impairs β^2 -Cell Proliferation In Vivo. <i>Transplantation Proceedings</i> , 2008, 40, 436-437.	0.6	25
33	Rapamycin Impairs In Vivo Proliferation of Islet Beta-Cells. <i>Transplantation</i> , 2007, 84, 1576-1583.	1.0	97
34	Effects of Low Glucose Concentrations on Oxygen Consumption Rates of Intervertebral Disc Cells. <i>Spine</i> , 2007, 32, 2063-2069.	2.0	27
35	Modeling and in vitro and in vivo characterization of a tissue engineered pancreatic substitute. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	0
36	Shipment of Human Islets for Transplantation. <i>American Journal of Transplantation</i> , 2007, 7, 1010-1020.	4.7	106

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37	Enhanced Oxygenation Promotes β -Cell Differentiation In Vitro. <i>Stem Cells</i> , 2007, 25, 3155-3164.	3.2	60
38	Improved Human Islet Isolation Using Nicotinamide. <i>American Journal of Transplantation</i> , 2006, 6, 2060-2068.	4.7	69
39	Heme oxygenase-1 fused to a TAT peptide transduces and protects pancreatic β -cells. <i>Biochemical and Biophysical Research Communications</i> , 2003, 305, 876-881.	2.1	66
40	Improved human islet isolation outcome from marginal donors following addition of oxygenated perfluorocarbon to the cold-storage solution. <i>Transplantation</i> , 2003, 75, 1524-1527.	1.0	142
41	USE OF OXYGENATED PERFLUOROCARBON TOWARD MAKING EVERY PANCREAS COUNT. <i>Transplantation</i> , 2002, 74, 1811-1812.	1.0	48
42	Neonatal porcine pancreatic cell clusters as a potential source for transplantation in humans: Characterization of proliferation, apoptosis, xenoantigen expression and gene delivery with recombinant AAV. <i>Xenotransplantation</i> , 2002, 9, 14-24.	2.8	26