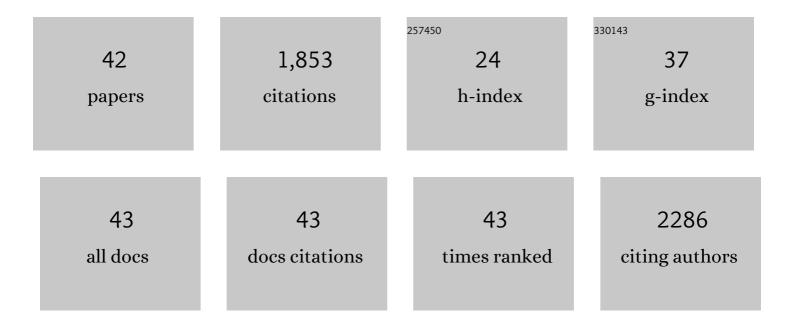
## **Christopher A Fraker**

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3358070/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Preventing hypoxia-induced cell death in beta cells and islets via hydrolytically activated, oxygen-generating biomaterials. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4245-4250.	7.1	335
2	Device design and materials optimization of conformal coating for islets of Langerhans. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10514-10519.	7.1	167
3	Improved human islet isolation outcome from marginal donors following addition of oxygenated perfluorocarbon to the cold-storage solution. Transplantation, 2003, 75, 1524-1527.	1.0	142
4	Macroporous Three-Dimensional PDMS Scaffolds for Extrahepatic Islet Transplantation. Cell Transplantation, 2013, 22, 1123-1135.	2.5	112
5	Shipment of Human Islets for Transplantation. American Journal of Transplantation, 2007, 7, 1010-1020.	4.7	106
6	Rapamycin Impairs In Vivo Proliferation of Islet Beta-Cells. Transplantation, 2007, 84, 1576-1583.	1.0	97
7	Improved Human Islet Isolation Using Nicotinamide. American Journal of Transplantation, 2006, 6, 2060-2068.	4.7	69
8	Heme oxygenase-1 fused to a TAT peptide transduces and protects pancreatic β-cells. Biochemical and Biophysical Research Communications, 2003, 305, 876-881.	2.1	66
9	Quantitative Assessment of Islet Cell Products: Estimating the Accuracy of the Existing Protocol and Accounting for Islet Size Distribution. Cell Transplantation, 2009, 18, 1223-1235.	2.5	61
10	Enhanced Oxygenation Promotes β-Cell Differentiation In Vitro. Stem Cells, 2007, 25, 3155-3164.	3.2	60
11	Synthesis of macroporous poly(dimethylsiloxane) scaffolds for tissue engineering applications. Journal of Biomaterials Science, Polymer Edition, 2013, 24, 1041-1056.	3.5	58
12	USE OF OXYGENATED PERFLUOROCARBON TOWARD MAKING EVERY PANCREAS COUNT. Transplantation, 2002, 74, 1811-1812.	1.0	48
13	Optimization of perfluoro nano-scale emulsions: The importance of particle size for enhanced oxygen transfer in biomedical applications. Colloids and Surfaces B: Biointerfaces, 2012, 98, 26-35.	5.0	47
14	Influence of In Vitro and In Vivo Oxygen Modulation on <i>β</i> Cell Differentiation From Human Embryonic Stem Cells. Stem Cells Translational Medicine, 2014, 3, 277-289.	3.3	38
15	Complementary Methods for the Determination of Dissolved Oxygen Content in Perfluorocarbon Emulsions and Other Solutions. Journal of Physical Chemistry B, 2011, 115, 10547-10552.	2.6	35
16	Long-term culture of human pancreatic slices as a model to study real-time islet regeneration. Nature Communications, 2020, 11, 3265.	12.8	34
17	Oxygen: a master regulator of pancreatic development?. Biology of the Cell, 2009, 101, 431-440.	2.0	33
18	A Double Fail-Safe Approach to Prevent Tumorigenesis and Select Pancreatic β Cells from Human Embryonic Stem Cells. Stem Cell Reports, 2019, 12, 611-623.	4.8	32

#	Article	IF	CITATIONS
19	Effects of Low Glucose Concentrations on Oxygen Consumption Rates of Intervertebral Disc Cells. Spine, 2007, 32, 2063-2069.	2.0	27
20	A Physiological Pattern of Oxygenation Using Perfluorocarbon-Based Culture Devices Maximizes Pancreatic Islet Viability and Enhances β-Cell Function. Cell Transplantation, 2013, 22, 1723-1733.	2.5	27
21	Manganese oxide particles as cytoprotective, oxygen generating agents. Acta Biomaterialia, 2017, 59, 327-337.	8.3	27
22	The Folate Cycle As a Cause of Natural Killer Cell Dysfunction and Viral Etiology in Type 1 Diabetes. Frontiers in Endocrinology, 2017, 8, 315.	3.5	27
23	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. Xenotransplantation, 2002, 9, 14-24.	2.8	26
24	The Expanding Role of Natural Killer Cells in Type 1 Diabetes and Immunotherapy. Current Diabetes Reports, 2016, 16, 109.	4.2	26
25	Rapamycin Impairs Î <sup>2</sup> -Cell Proliferation In Vivo. Transplantation Proceedings, 2008, 40, 436-437.	0.6	25
26	Perfluorinated alginate for cellular encapsulation. Journal of Biomedical Materials Research - Part A, 2012, 100A, 1963-1971.	4.0	25
27	Covalent stabilization of alginate hydrogel beads via Staudinger ligation: Assessment of poly(ethylene) Tj ETQq1	1 9.78431	4 rgBT /Ovei
28	The Importance of Proper Oxygenation in 3D Culture. Frontiers in Bioengineering and Biotechnology, 2021, 9, 634403.	4.1	20
29	Corneal elasticity after oxygen enriched high intensity corneal cross linking assessed using atomic force microscopy. Experimental Eye Research, 2016, 153, 51-55.	2.6	18
30	TAT-Mediated Transduction of MafA Protein In Utero Results in Enhanced Pancreatic Insulin Expression and Changes in Islet Morphology. PLoS ONE, 2011, 6, e22364.	2.5	14
31	Natural Killer Cells as Key Mediators in Type I Diabetes Immunopathology. Frontiers in Immunology, 2021, 12, 722979.	4.8	12
32	Stable perfluorocarbon emulsions for the delivery of halogenated ether anesthetics. Colloids and Surfaces B: Biointerfaces, 2018, 172, 797-805.	5.0	5
33	Modeling and in vitro and in vivo characterization ofÂaÂtissue engineered pancreatic substitute. Journal of Combinatorial Optimization, 2009, 17, 54-73.	1.3	4
34	Optical sensor arrays designed for guided manufacture of perfluorocarbon nanoemulsions with a non-synthetic stabilizer. Acta Biomaterialia, 2021, 136, 558-569.	8.3	3
35	Determining chemical exchange rate constants in nanoemulsions using nuclear magnetic resonance. Physical Chemistry Chemical Physics, 2021, 23, 19244-19254.	2.8	2
36	Rapid quantification of isoflurane in anesthetic nanoemulsions using Attenuated Total Reflectance Fourier Transform Infrared Spectroscopy (ATR-FTIR). Vibrational Spectroscopy, 2020, 109, 103095.	2.2	1

#	Article	IF	CITATIONS
37	Reverse-dialysis can be misleading for drug release studies in emulsions as demonstrated by NMR dilution experiments. International Journal of Pharmaceutics, 2021, 608, 121093.	5.2	1
38	A Novel Cell Culture Platform for In-Vitro Enhancement of Oxygen Delivery Leads to Improved Physiological Function of Isolated Islets of Langerhans. IFMBE Proceedings, 2009, , 163-164.	0.3	1
39	Modeling and in vitro and in vivo characterization of a tissue engineered pancreatic substitute. AIP Conference Proceedings, 2007, , .	0.4	Ο
40	Optimization of Perfluorocarbon Emulsions for Cellular Encapsulation. IFMBE Proceedings, 2009, , 165-166.	0.3	0
41	Design and Development of a Highly Macroporous Silicone Scaffold as a Bioartificial Pancreas for Type 1 Diabetes. IFMBE Proceedings, 2009, , 233-234.	0.3	0
42	2139-P: Real-Time Monitoring and High-Resolution Analysis of Human Pancreatic Ductal Plasticity. Diabetes, 2019, 68, .	0.6	0