## Emmanuel C Opara

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/4064678/publications.pdf

Version: 2024-02-01

55 papers 1,540 citations

331538 21 h-index 315616 38 g-index

55 all docs 55 docs citations

55 times ranked 1886 citing authors

#	Article	IF	CITATIONS
1	Porcine pancreas extracellular matrix as a platform for endocrine pancreas bioengineering. Biomaterials, 2013, 34, 5488-5495.	5.7	145
2	Characteristics of Poly-l-Ornithine-coated alginate microcapsules. Biomaterials, 2005, 26, 6846-6852.	5.7	143
3	The Bioartificial Pancreas: Progress and Challenges. Diabetes Technology and Therapeutics, 2005, 7, 968-985.	2.4	103
4	Design of a Bioartificial Pancreas. Journal of Investigative Medicine, 2010, 58, 831-837.	0.7	94
5	Synthesis of multilayered alginate microcapsules for the sustained release of fibroblast growth factorâ€1. Journal of Biomedical Materials Research - Part A, 2010, 95A, 632-640.	2.1	73
6	Evolution of Islet Transplantation for the Last 30 Years. Pancreas, 2016, 45, 8-20.	0.5	70
7	Role of Oxidative Stress in the Etiology of Type 2 Diabetes and the Effect of Antioxidant Supplementation on Glycemic Control. Journal of Investigative Medicine, 2004, 52, 19.2-23.	0.7	60
8	Long-Term Function of Islets Encapsulated in a Redesigned Alginate Microcapsule Construct in Omentum Pouches of Immune-Competent Diabetic Rats. Pancreas, 2014, 43, 605-613.	0.5	56
9	Applications of particulate oxygen-generating substances (POGS) in the bioartificial pancreas. Biomaterials Science, 2017, 5, 2437-2447.	2.6	52
10	Chemical Modification of Alginate for Controlled Oral Drug Delivery. Journal of Agricultural and Food Chemistry, 2019, 67, 10481-10488.	2.4	52
11	Novel 3D Co-Culture Model for Epithelial-Stromal Cells Interaction in Prostate Cancer. PLoS ONE, 2013, 8, e75187.	1.1	52
12	A three-dimensional microfluidic approach to scaling up microencapsulation of cells. Biomedical Microdevices, 2012, 14, 461-469.	1.4	49
13	Design of a bioartificial pancreas(+). Journal of Investigative Medicine, 2010, 58, 831-7.	0.7	48
14	Engineered multilayer ovarian tissue that secretes sex steroids and peptide hormones in response to gonadotropins. Biomaterials, 2013, 34, 2412-2420.	5.7	43
15	Immunoisolation techniques for islet cell transplantation. Expert Opinion on Biological Therapy, 2002, 2, 503-511.	1.4	37
16	In vivo transplantation of 3D encapsulated ovarian constructs in rats corrects abnormalities of ovarian failure. Nature Communications, 2017, 8, 1858.	5.8	35
17	Effect of alginate composition and gelling cation on micro-bead swelling. Journal of Microencapsulation, 2006, 23, 29-37.	1.2	34
18	Alginate-based strategies for therapeutic vascularization. Therapeutic Delivery, 2013, 4, 327-341.	1.2	33

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19	Microencapsulation of Pancreatic Islets for Use in a Bioartificial Pancreas. Methods in Molecular Biology, 2013, 1001, 261-266.	0.4	31
20	Microencapsulation of porcine thyroid cell organoids within a polymer microcapsule construct. Experimental Biology and Medicine, 2017, 242, 286-296.	1.1	28
21	Effect of alginate matrix engineered to mimic the pancreatic microenvironment on encapsulated islet function. Biotechnology and Bioengineering, 2021, 118, 1177-1185.	1.7	24
22	Scientific principles of regenerative medicine and their application in the female reproductive system. Maturitas, 2014, 77, 12-19.	1.0	22
23	Encapsulation of Mesenchymal Stem Cells in 3D Ovarian Cell Constructs Promotes Stable and Long-Term Hormone Secretion with Improved Physiological Outcomes in a Syngeneic Rat Model. Annals of Biomedical Engineering, 2020, 48, 1058-1070.	1.3	22
24	Islet cell transplantation for the treatment of diabetes mellitus. Expert Opinion on Biological Therapy, 2001, 1, 109-119.	1.4	21
25	Durability of sodium sulfate-treated polylysine-alginate microcapsules. Journal of Biomedical Materials Research Part B, 2001, 54, 396-399.	3.0	20
26	Effects of Allogeneic Bone Marrow Derived Mesenchymal Stromal Cell Therapy on Voiding Function in a Rat Model of Parkinson Disease. Journal of Urology, 2014, 191, 850-859.	0.2	20
27	Winner of the student award in the undergraduate category, 10th World Biomaterials Congress, May 17–22, 2016, Montreal QC, Canada: Evaluation of the tissue response to alginate encapsulated islets in an omentum pouch model. Journal of Biomedical Materials Research - Part A, 2016, 104, 1581-1590.	2.1	17
28	Design of an Adhesive Film-Based Microfluidic Device for Alginate Hydrogel-Based Cell Encapsulation. Annals of Biomedical Engineering, 2020, 48, 1103-1111.	1.3	16
29	Comprehensive characterization of the human pancreatic proteome for bioengineering applications. Biomaterials, 2021, 270, 120613.	5.7	13
30	Methods for Incorporating Oxygen-Generating Biomaterials into Cell Culture and Microcapsule Systems. Methods in Molecular Biology, 2017, 1479, 135-141.	0.4	11
31	Glutathione-Mediated Preservation and Enhancement of Isolated Perifused Islet Function. Journal of Surgical Research, 1995, 59, 694-698.	0.8	10
32	Development of a Novel Oral Delivery Vehicle for Probiotics. Current Pharmaceutical Design, 2020, 26, 3134-3140.	0.9	10
33	Islet cell encapsulation – Application in diabetes treatment. Experimental Biology and Medicine, 2021, 246, 2570-2578.	1.1	10
34	The therapeutic potential of islet cell transplant in the treatment of diabetes. Expert Opinion on Investigational Drugs, 1998, 7, 785-795.	1.9	8
35	Combinations of Activin A or Nicotinamide with the Pancreatic Transcription Factor PDX1 Support Differentiation of Human Amnion Epithelial Cells Toward a Pancreatic Lineage. Cellular Reprogramming, 2017, 19, 255-262.	0.5	8
36	Polymeric Materials for Perm-Selective Coating of Alginate Microbeads. Methods in Molecular Biology, 2017, 1479, 95-109.	0.4	8

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37	The combined effect of PDX1, epidermal growth factor and poly-L-ornithine on human amnion epithelial cells' differentiation. BMC Developmental Biology, 2016, 16, 8.	2.1	7
38	Applications of Cell Microencapsulation. Methods in Molecular Biology, 2017, 1479, 23-39.	0.4	7
39	Microfluidic Approach to Cell Microencapsulation. Methods in Molecular Biology, 2017, 1479, 71-76.	0.4	7
40	Detergent-Free Decellularization of the Human Pancreas for Soluble Extracellular Matrix (ECM) Production. Journal of Visualized Experiments, 2020, , .	0.2	7
41	Perspectives and Challenges on the Potential Use of Exosomes in Bioartificial Pancreas Engineering. Annals of Biomedical Engineering, 2022, 50, 1177-1186.	1.3	7
42	Retrieval of Microencapsulated Islet Grafts for Post-transplant Evaluation. Methods in Molecular Biology, 2017, 1479, 157-171.	0.4	6
43	Compartmentalization of Two Cell Types in Multilayered Alginate Microcapsules. Methods in Molecular Biology, 2017, 1479, 225-235.	0.4	3
44	Selective Osmotic Shock for Islet Isolation in the Cadaveric Canine Pancreas. Cell Transplantation, 2018, 27, 542-550.	1.2	3
45	<i>In Vitro</i> Proliferation of Porcine Pancreatic Islet Cells for <i>β</i> Cell Therapy Applications. Journal of Diabetes Research, 2016, 2016, 1-8.	1.0	2
46	Selective Osmotic Shock (SOS)-Based Islet Isolation for Microencapsulation. Methods in Molecular Biology, 2017, 1479, 191-198.	0.4	2
47	Determination of the Mechanical Strength of Microcapsules. Methods in Molecular Biology, 2017, 1479, 111-118.	0.4	2
48	Encapsulation Strategies for Pancreatic Islet Transplantation without Immune Suppression. Current Stem Cell Reports, 2021, 7, 49-71.	0.7	2
49	Microencapsulation: The Emerging Role of Microfluidics. Micro and Nanosystems, 2013, 5, 194-208.	0.3	2
50	Effect of Alginate Microbead Encapsulation of Placental Mesenchymal Stem Cells on Their Immunomodulatory Function. Annals of Biomedical Engineering, 2022, 50, 291-302.	1.3	2
51	A Method of Porcine Pancreatic Islet Isolation for Microencapsulation. Methods in Molecular Biology, 2017, 1479, 175-189.	0.4	1
52	Bioengineering and Enabling Technologies: ABME Special Issue Editorial. Annals of Biomedical Engineering, 2020, 48, 1445-1450.	1.3	1
53	Controlled Delivery of Slit3 Proteins from Alginate Microbeads Inhibits InÂVitro Angiogenesis. Journal of Surgical Research, 2021, 264, 90-98.	0.8	1
54	Cell-Based and Pharmacologic Hormone Therapy Maintain Diastolic Function After Ovariectomy in Hypertensive Rats. Innovation in Aging, 2020, 4, 131-131.	0.0	0

#	Article	IF	CITATIONS
55	Cellâ€based hormone therapy prevents diastolic dysfunction after estrogen loss in the Spontaneously Hypertensive Rat (SHR). FASEB Journal, 2020, 34, 1-1.	0.2	0