

Eduardo A Silva

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8700252/publications.pdf>

Version: 2024-02-01

50
papers

4,490
citations

172207

29
h-index

197535

49
g-index

52
all docs

52
docs citations

52
times ranked

6735
citing authors

#	ARTICLE	IF	CITATIONS
1	Growth factor delivery-based tissue engineering: general approaches and a review of recent developments. <i>Journal of the Royal Society Interface</i> , 2011, 8, 153-170.	1.5	1,150
2	Spatio-temporal VEGF and PDGF Delivery Patterns Blood Vessel Formation and Maturation. <i>Pharmaceutical Research</i> , 2007, 24, 258-264.	1.7	363
3	Angiogenic effects of sequential release of VEGF-A165 and PDGF-BB with alginate hydrogels after myocardial infarction. <i>Cardiovascular Research</i> , 2007, 75, 178-185.	1.8	329
4	Spatiotemporal control of vascular endothelial growth factor delivery from injectable hydrogels enhances angiogenesis. <i>Journal of Thrombosis and Haemostasis</i> , 2007, 5, 590-598.	1.9	292
5	Effects of VEGF temporal and spatial presentation on angiogenesis. <i>Biomaterials</i> , 2010, 31, 1235-1241.	5.7	209
6	Material-based deployment enhances efficacy of endothelial progenitor cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 14347-14352.	3.3	199
7	Biological responses to physicochemical properties of biomaterial surface. <i>Chemical Society Reviews</i> , 2020, 49, 5178-5224.	18.7	183
8	Targeted Delivery of Nanoparticles to Ischemic Muscle for Imaging and Therapeutic Angiogenesis. <i>Nano Letters</i> , 2011, 11, 694-700.	4.5	135
9	Integrated approach to designing growth factor delivery systems. <i>FASEB Journal</i> , 2007, 21, 3896-3903.	0.2	119
10	Sustained Release of Multiple Growth Factors from Injectable Polymeric System as a Novel Therapeutic Approach Towards Angiogenesis. <i>Pharmaceutical Research</i> , 2010, 27, 264-271.	1.7	111
11	Injectable MMP-Sensitive Alginate Hydrogels as hMSC Delivery Systems. <i>Biomacromolecules</i> , 2014, 15, 380-390.	2.6	93
12	Injectable VEGF Hydrogels Produce Near Complete Neurological and Anatomical Protection following Cerebral Ischemia in Rats. <i>Cell Transplantation</i> , 2010, 19, 1063-1071.	1.2	90
13	Driving vascular endothelial cell fate of human multipotent Isl1+ heart progenitors with VEGF modified mRNA. <i>Cell Research</i> , 2013, 23, 1172-1186.	5.7	89
14	Refilling drug delivery depots through the blood. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 12722-12727.	3.3	84
15	Synthetic Extracellular Matrices for Tissue Engineering and Regeneration. <i>Current Topics in Developmental Biology</i> , 2004, 64, 181-205.	1.0	75
16	Mimicking nature by codelivery of stimulant and inhibitor to create temporally stable and spatially restricted angiogenic zones. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 17933-17938.	3.3	61
17	Guided Bone Regeneration Using Injectable Vascular Endothelial Growth Factor Delivery Gel. <i>Journal of Periodontology</i> , 2013, 84, 230-238.	1.7	58
18	Surface Modification with Alginate-Derived Polymers for Stable, Protein-Repellent, Long-Circulating Gold Nanoparticles. <i>ACS Nano</i> , 2012, 6, 4796-4805.	7.3	53

#	ARTICLE	IF	CITATIONS
19	Guiding morphogenesis in cell-instructive microgels for therapeutic angiogenesis. <i>Biomaterials</i> , 2018, 154, 34-47.	5.7	52
20	Enzymatically degradable alginate hydrogel systems to deliver endothelial progenitor cells for potential revascularization applications. <i>Biomaterials</i> , 2018, 179, 109-121.	5.7	52
21	Injectable alginate hydrogel for enhanced spatiotemporal control of lentivector delivery in murine skeletal muscle. <i>Journal of Controlled Release</i> , 2016, 237, 42-49.	4.8	50
22	Alginate-Based Bioinks for 3D Bioprinting and Fabrication of Anatomically Accurate Bone Grafts. <i>Tissue Engineering - Part A</i> , 2021, 27, 1168-1181.	1.6	49
23	Alginate hydrogels allow for bioactive and sustained release of VEGF-C and VEGF-D for lymphangiogenic therapeutic applications. <i>PLoS ONE</i> , 2017, 12, e0181484.	1.1	46
24	Hypoxia Augments Outgrowth Endothelial Cell (OEC) Sprouting and Directed Migration in Response to Sphingosine-1-Phosphate (S1P). <i>PLoS ONE</i> , 2015, 10, e0123437.	1.1	40
25	Microgels produced using microfluidic on-chip polymer blending for controlled release of VEGF encoding lentivectors. <i>Acta Biomaterialia</i> , 2018, 69, 265-276.	4.1	37
26	VEGF and IGF Delivered from Alginate Hydrogels Promote Stable Perfusion Recovery in Ischemic Hind Limbs of Aged Mice and Young Rabbits. <i>Journal of Vascular Research</i> , 2017, 54, 288-298.	0.6	36
27	Lysophosphatidic Acid and Sphingosine-1-Phosphate: A Concise Review of Biological Function and Applications for Tissue Engineering. <i>Tissue Engineering - Part B: Reviews</i> , 2015, 21, 531-542.	2.5	35
28	Viability and functionality of cells delivered from peptide conjugated scaffolds. <i>Biomaterials</i> , 2011, 32, 3721-3728.	5.7	31
29	Alginate and DNA Gels Are Suitable Delivery Systems for Diabetic Wound Healing. <i>International Journal of Lower Extremity Wounds</i> , 2015, 14, 146-153.	0.6	30
30	Alginate-Chitosan Hydrogels Provide a Sustained Gradient of Sphingosine-1-Phosphate for Therapeutic Angiogenesis. <i>Annals of Biomedical Engineering</i> , 2017, 45, 1003-1014.	1.3	26
31	Fibroblasts Derived from Human Pluripotent Stem Cells Activate Angiogenic Responses In Vitro and In Vivo. <i>PLoS ONE</i> , 2013, 8, e83755.	1.1	24
32	Biomaterial-Guided Gene Delivery for Musculoskeletal Tissue Repair. <i>Tissue Engineering - Part B: Reviews</i> , 2017, 23, 347-361.	2.5	24
33	Characterizing the encapsulation and release of lentivectors and adeno-associated vectors from degradable alginate hydrogels. <i>Biomaterials Science</i> , 2019, 7, 645-656.	2.6	23
34	The Role of Synthetic Extracellular Matrices in Endothelial Progenitor Cell Homing for Treatment of Vascular Disease. <i>Annals of Biomedical Engineering</i> , 2015, 43, 2301-2313.	1.3	20
35	Microfluidic generation of alginate microgels for the controlled delivery of lentivectors. <i>Journal of Materials Chemistry B</i> , 2016, 4, 6989-6999.	2.9	20
36	Computational-Based Design of Hydrogels with Predictable Mesh Properties. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 308-319.	2.6	19

#	ARTICLE	IF	CITATIONS
37	A glue for biomaterials. <i>Nature Materials</i> , 2007, 6, 327-328.	13.3	18
38	Hydrogel biophysical properties instruct coculture-mediated osteogenic potential. <i>FASEB Journal</i> , 2016, 30, 477-486.	0.2	18
39	Positron emission tomography imaging of novel AAV capsids maps rapid brain accumulation. <i>Nature Communications</i> , 2020, 11, 2102.	5.8	17
40	Comparison of Endothelial Differentiation Capacities of Human and Rat Adipose-Derived Stem Cells. <i>Plastic and Reconstructive Surgery</i> , 2016, 138, 1231-1241.	0.7	16
41	PRP and BMAC for Musculoskeletal Conditions via Biomaterial Carriers. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5328.	1.8	16
42	Biomaterial Based Strategies for Engineering New Lymphatic Vasculature. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000895.	3.9	15
43	Unraveling Muscle Impairment Associated With COVID-19 and the Role of 3D Culture in Its Investigation. <i>Frontiers in Nutrition</i> , 2022, 9, 825629.	1.6	15
44	Endothelial cells expressing low levels of CD143 (ACE) exhibit enhanced sprouting and potency in relieving tissue ischemia. <i>Angiogenesis</i> , 2014, 17, 617-630.	3.7	14
45	Alginate hydrogels of varied molecular weight distribution enable sustained release of sphingosine-1-phosphate and promote angiogenesis. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 138-146.	2.1	14
46	Tuning cytokines enriches dendritic cells and regulatory T cells in the periodontium. <i>Journal of Periodontology</i> , 2020, 91, 1475-1485.	1.7	13
47	Isolating and characterizing lymphatic endothelial progenitor cells for potential therapeutic lymphangiogenic applications. <i>Acta Biomaterialia</i> , 2021, 135, 191-202.	4.1	7
48	Thaw-Induced Gelation of Alginate Hydrogels for Versatile Delivery of Therapeutics. <i>Annals of Biomedical Engineering</i> , 2019, 47, 1701-1710.	1.3	6
49	Bioengineering strategies for gene delivery. , 2020, , 107-148.		4
50	Biomaterials and Cells for Revascularization. <i>Molecular and Translational Medicine</i> , 2017, , 139-172.	0.4	2