

Leon M Bellan

List of Publications by Year in descending order

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35
papers

1,208
citations

394421

19
h-index

377865

34
g-index

36
all docs

36
docs citations

36
times ranked

2179
citing authors

#	ARTICLE	IF	CITATIONS
1	Fabrication of an artificial 3-dimensional vascular network using sacrificial sugar structures. <i>Soft Matter</i> , 2009, 5, 1354.	2.7	159
2	Thermal conductivity of electrospun polyethylene nanofibers. <i>Nanoscale</i> , 2015, 7, 16899-16908.	5.6	103
3	A 3D Interconnected Microchannel Network Formed in Gelatin by Sacrificial Shellac Microfibers. <i>Advanced Materials</i> , 2012, 24, 5187-5191.	21.0	99
4	Measurement of the Young's moduli of individual polyethylene oxide and glass nanofibres. <i>Nanotechnology</i> , 2005, 16, 1095-1099.	2.6	91
5	Development of 3D Microvascular Networks Within Gelatin Hydrogels Using Thermoresponsive Sacrificial Microfibers. <i>Advanced Healthcare Materials</i> , 2016, 5, 781-785.	7.6	81
6	Combinatorial polymer matrices enhance <i>in vitro</i> maturation of human induced pluripotent stem cell-derived cardiomyocytes. <i>Biomaterials</i> , 2015, 67, 52-64.	11.4	71
7	iPSC-Derived Brain Endothelium Exhibits Stable, Long-Term Barrier Function in Perfused Hydrogel Scaffolds. <i>Stem Cell Reports</i> , 2019, 12, 474-487.	4.8	70
8	Gold Nanoantenna-Mediated Photothermal Drug Delivery from Thermosensitive Liposomes in Breast Cancer. <i>ACS Omega</i> , 2016, 1, 234-243.	3.5	62
9	Multifunctional high strength and high energy epoxy composite structural supercapacitors with wet-dry operational stability. <i>Journal of Materials Chemistry A</i> , 2015, 3, 20097-20102.	10.3	38
10	Structural, functional, and behavioral insights of dopamine dysfunction revealed by a deletion in <i>SLC6A3</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 3853-3862.	7.1	35
11	Pendant allyl crosslinking as a tunable shape memory actuator for vascular applications. <i>Acta Biomaterialia</i> , 2015, 24, 53-63.	8.3	32
12	The relationship between the Young's modulus and dry etching rate of polydimethylsiloxane (PDMS). <i>Biomedical Microdevices</i> , 2019, 21, 26.	2.8	31
13	Theranostic Gold Nanoantennas for Simultaneous Multiplexed Raman Imaging of Immunomarkers and Photothermal Therapy. <i>ACS Omega</i> , 2017, 2, 3583-3594.	3.5	29
14	Thermal transport in electrospun vinyl polymer nanofibers: effects of molecular weight and side groups. <i>Soft Matter</i> , 2018, 14, 9534-9541.	2.7	27
15	Spin ² : an updated miniaturized spinning bioreactor design for the generation of human cerebral organoids from pluripotent stem cells. <i>HardwareX</i> , 2019, 6, e00084.	2.2	27
16	A temperature-sensitive, self-adhesive hydrogel to deliver iPSC-derived cardiomyocytes for heart repair. <i>International Journal of Cardiology</i> , 2015, 190, 177-180.	1.7	23
17	Modeling Neurovascular Disorders and Therapeutic Outcomes with Human-Induced Pluripotent Stem Cells. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018, 5, 87.	4.1	23
18	PRADA: Portable Reusable Accurate Diagnostics with nanostar Antennas for multiplexed biomarker screening. <i>Bioengineering and Translational Medicine</i> , 2020, 5, e10165.	7.1	23

#	ARTICLE	IF	CITATIONS
19	A simple microfluidic platform for rapid and efficient production of the radiotracer [¹⁸ F]fallypride. <i>Lab on A Chip</i> , 2018, 18, 1369-1377.	6.0	22
20	Composites Formed from Thermoresponsive Polymers and Conductive Nanowires for Transient Electronic Systems. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 21991-21997.	8.0	21
21	Spatiotemporal control and modeling of morphogen delivery to induce gradient patterning of stem cell differentiation using fluidic channels. <i>Biomaterials Science</i> , 2019, 7, 1358-1371.	5.4	18
22	Development of an N-Cadherin Biofunctionalized Hydrogel to Support the Formation of Synaptically Connected Neural Networks. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 5811-5822.	5.2	16
23	Cationic Nanocylinders Promote Angiogenic Activities of Endothelial Cells. <i>Polymers</i> , 2016, 8, 15.	4.5	14
24	Differential responses of induced pluripotent stem cell-derived cardiomyocytes to anisotropic strain depends on disease status. <i>Journal of Biomechanics</i> , 2015, 48, 3890-3896.	2.1	13
25	High-Yielding Radiosynthesis of [⁶⁸ Ga]Ga-PSMA-11 Using a Low-Cost Microfluidic Device. <i>Molecular Imaging and Biology</i> , 2020, 22, 1370-1379.	2.6	13
26	Rapid prototyping of cell culture microdevices using parylene-coated 3D prints. <i>Lab on A Chip</i> , 2021, 21, 4814-4822.	6.0	12
27	Reprint of: Pendant allyl crosslinking as a tunable shape memory actuator for vascular applications. <i>Acta Biomaterialia</i> , 2016, 34, 73-83.	8.3	11
28	Pulmonary Vascular Platform Models the Effects of Flow and Pressure on Endothelial Dysfunction in BMPR2 Associated Pulmonary Arterial Hypertension. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2561.	4.1	9
29	Biomimetic Microstructure Morphology in Electrospun Fiber Mats is Critical for Maintaining Healthy Cardiomyocyte Phenotype. <i>Cellular and Molecular Bioengineering</i> , 2016, 9, 107-115.	2.1	8
30	Thermoresponsive Transient Radio Frequency Antennas: Toward Triggered Wireless Transient Circuits. <i>Advanced Materials Technologies</i> , 2019, 4, 1900528.	5.8	7
31	A Customizable, Low-Cost Perfusion System for Sustaining Tissue Constructs. <i>SLAS Technology</i> , 2018, 23, 592-598.	1.9	6
32	Robust fluidic connections to freestanding microfluidic hydrogels. <i>Biomicrofluidics</i> , 2015, 9, 036501.	2.4	5
33	Spatiotemporal Control of Morphogen Delivery to Pattern Stem Cell Differentiation in Three-Dimensional Hydrogels. <i>Current Protocols in Stem Cell Biology</i> , 2019, 51, e97.	3.0	5
34	Successful prevention of secondary burn progression using infliximab hydrogel: A murine model. <i>Burns</i> , 2022, 48, 896-901.	1.9	3
35	Rescuing the negative effects of aging in burn wounds using tacrolimus applied via microcapillary hydrogel dressing. <i>Burns</i> , 2022, , .	1.9	1