# 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 | Successful prevention of secondary burn progression using infliximab hydrogel: A murine model. Burns, 2022, 48, 896-901. | 1.9 | 3 |
| 2 | Rescuing the negative effects of aging in burn wounds using tacrolimus applied via microcapillary hydrogel dressing. Burns, 2022, , . | 1.9 | 1 |
| 3 | Rapid prototyping of cell culture microdevices using parylene-coated 3D prints. Lab on A Chip, 2021, 21, 4814-4822. | 6.0 | 12 |
| 4 | PRADA: Portable Reusable Accurate Diagnostics with nanostar Antennas for multiplexed biomarker screening. Bioengineering and Translational Medicine, 2020, 5, e10165. | 7.1 | 23 |
| 5 | Development of an N-Cadherin Biofunctionalized Hydrogel to Support the Formation of Synaptically Connected Neural Networks. ACS Biomaterials Science and Engineering, 2020, 6, 5811-5822. | 5.2 | 16 |
| 6 | High-Yielding Radiosynthesis of [68Ga]Ga-PSMA-11 Using a Low-Cost Microfluidic Device. Molecular Imaging and Biology, 2020, 22, 1370-1379. | 2.6 | 13 |
| 7 | Thermoresponsive Transient Radio Frequency Antennas: Toward Triggered Wireless Transient Circuits. Advanced Materials Technologies, 2019, 4, 1900528. | 5.8 | 7 |
| 8 | Spatiotemporal Control of Morphogen Delivery to Pattern Stem Cell Differentiation in Threeâ€Ðimensional Hydrogels. Current Protocols in Stem Cell Biology, 2019, 51, e97. | 3.0 | 5 |
| 9 | The relationship between the Youngâ€™s modulus and dry etching rate of polydimethylsiloxane (PDMS). Biomedical Microdevices, 2019, 21, 26. | 2.8 | 31 |
| 10 | Structural, functional, and behavioral insights of dopamine dysfunction revealed by a deletion in SLC6A3. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3853-3862. | 7.1 | 35 |
| 11 | Spatiotemporal control and modeling of morphogen delivery to induce gradient patterning of stem cell differentiation using fluidic channels. Biomaterials Science, 2019, 7, 1358-1371. | 5.4 | 18 |
| 12 | iPSC-Derived Brain Endothelium Exhibits Stable, Long-Term Barrier Function in Perfused Hydrogel Scaffolds. Stem Cell Reports, 2019, 12, 474-487. | 4.8 | 70 |
| 13 | Spinâ˛ž: an updated miniaturized spinning bioreactor design for the generation of human cerebral organoids from pluripotent stem cells. HardwareX, 2019, 6, e00084. | 2.2 | 27 |
| 14 | A simple microfluidic platform for rapid and efficient production of the radiotracer [<sup>18</sup>F]fallypride. Lab on A Chip, 2018, 18, 1369-1377. | 6.0 | 22 |
| 15 | Thermal transport in electrospun vinyl polymer nanofibers: effects of molecular weight and side groups. Soft Matter, 2018, 14, 9534-9541. | 2.7 | 27 |
| 16 | Pulmonary Vascular Platform Models the Effects of Flow and Pressure on Endothelial Dysfunction in BMPR2 Associated Pulmonary Arterial Hypertension. International Journal of Molecular Sciences, 2018, 19, 2561. | 4.1 | 9 |
| 17 | A Customizable, Low-Cost Perfusion System for Sustaining Tissue Constructs. SLAS Technology, 2018, 23, 592-598. | 1.9 | 6 |
| 18 | Modeling Neurovascular Disorders and Therapeutic Outcomes with Human-Induced Pluripotent Stem Cells. Frontiers in Bioengineering and Biotechnology, 2018, 5, 87. | 4.1 | 23 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Composites Formed from Thermoresponsive Polymers and Conductive Nanowires for Transient Electronic Systems. ACS Applied Materials & Interfaces, 2017, 9, 21991-21997. | 8.0 | 21 |
| 20 | Theranostic Gold Nanoantennas for Simultaneous Multiplexed Raman Imaging of Immunomarkers and Photothermal Therapy. ACS Omega, 2017, 2, 3583-3594. | 3.5 | 29 |
| 21 | Cationic Nanocylinders Promote Angiogenic Activities of Endothelial Cells. Polymers, 2016, 8, 15. | 4.5 | 14 |
| 22 | Reprint of: Pendant allyl crosslinking as a tunable shape memory actuator for vascular applications. Acta Biomaterialia, 2016, 34, 73-83. | 8.3 | 11 |
| 23 | Gold Nanoantenna-Mediated Photothermal Drug Delivery from Thermosensitive Liposomes in Breast Cancer. ACS Omega, 2016, 1, 234-243. | 3.5 | 62 |
| 24 | Development of 3D Microvascular Networks Within Gelatin Hydrogels Using Thermoresponsive Sacrificial Microfibers. Advanced Healthcare Materials, 2016, 5, 781-785. | 7.6 | 81 |
| 25 | Biomimetic Microstructure Morphology in Electrospun Fiber Mats is Critical for Maintaining Healthy Cardiomyocyte Phenotype. Cellular and Molecular Bioengineering, 2016, 9, 107-115. | 2.1 | 8 |
| 26 | Pendant allyl crosslinking as a tunable shape memory actuator for vascular applications. Acta Biomaterialia, 2015, 24, 53-63. | 8.3 | 32 |
| 27 | Robust fluidic connections to freestanding microfluidic hydrogels. Biomicrofluidics, 2015, 9, 036501. | 2.4 | 5 |
| 28 | A temperature-sensitive, self-adhesive hydrogel to deliver iPSC-derived cardiomyocytes for heart repair. International Journal of Cardiology, 2015, 190, 177-180. | 1.7 | 23 |
| 29 | Thermal conductivity of electrospun polyethylene nanofibers. Nanoscale, 2015, 7, 16899-16908. | 5.6 | 103 |
| 30 | Multifunctional high strength and high energy epoxy composite structural supercapacitors with wet-dry operational stability. Journal of Materials Chemistry A, 2015, 3, 20097-20102. | 10.3 | 38 |
| 31 | Differential responses of induced pluripotent stem cell-derived cardiomyocytes to anisotropic strain depends on disease status. Journal of Biomechanics, 2015, 48, 3890-3896. | 2.1 | 13 |
| 32 | Combinatorial polymer matrices enhance inÂvitro maturation of human induced pluripotent stem cell-derived cardiomyocytes. Biomaterials, 2015, 67, 52-64. | 11.4 | 71 |
| 33 | A 3D Interconnected Microchannel Network Formed in Gelatin by Sacrificial Shellac Microfibers. Advanced Materials, 2012, 24, 5187-5191. | 21.0 | 99 |
| 34 | Fabrication of an artificial 3-dimensional vascular network using sacrificial sugar structures. Soft Matter, 2009, 5, 1354. | 2.7 | 159 |
| 35 | Measurement of the Youngâ€™s moduli of individual polyethylene oxide and glass nanofibres. Nanotechnology, 2005, 16, 1095-1099. | 2.6 | 91 |