

Jesse K Placone

List of Publications by Year in descending order

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31
papers

1,919
citations

304743

22
h-index

526287

27
g-index

31
all docs

31
docs citations

31
times ranked

3305
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Advances in Extrusion-Based 3D Printing for Biomedical Applications. <i>Advanced Healthcare Materials</i> , 2018, 7, e1701161.	7.6	289
2	RAP2 mediates mechanoresponses of the Hippo pathway. <i>Nature</i> , 2018, 560, 655-660.	27.8	266
3	Spontaneous Membrane-Translocating Peptides by Orthogonal High-Throughput Screening. <i>Journal of the American Chemical Society</i> , 2011, 133, 8995-9004.	13.7	173
4	Understanding the extracellular forces that determine cell fate and maintenance. <i>Development (Cambridge)</i> , 2017, 144, 4261-4270.	2.5	147
5	Dynamically stiffened matrix promotes malignant transformation of mammary epithelial cells via collective mechanical signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 3502-3507.	7.1	108
6	Extrusion-based 3D printing of poly(propylene fumarate) scaffolds with hydroxyapatite gradients. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2017, 28, 532-554.	3.5	101
7	Extrusion-Based 3D Printing of Poly(propylene fumarate) in a Full-Factorial Design. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 1771-1780.	5.2	85
8	Development and Characterization of a 3D Printed, Keratin-Based Hydrogel. <i>Annals of Biomedical Engineering</i> , 2017, 45, 237-248.	2.5	82
9	Effect of Dynamic Culture and Periodic Compression on Human Mesenchymal Stem Cell Proliferation and Chondrogenesis. <i>Annals of Biomedical Engineering</i> , 2016, 44, 2103-2113.	2.5	76
10	Production of Plasma Membrane Vesicles with Chloride Salts and Their Utility as a Cell Membrane Mimetic for Biophysical Characterization of Membrane Protein Interactions. <i>Analytical Chemistry</i> , 2012, 84, 8650-8655.	6.5	68
11	Matrix stiffness mechanically conditions EMT and migratory behavior of oral squamous cell carcinoma. <i>Journal of Cell Science</i> , 2019, 132, .	2.0	60
12	Development of a 3D Printed, Bioengineered Placenta Model to Evaluate the Role of Trophoblast Migration in Preeclampsia. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 1817-1826.	5.2	59
13	The Extracellular Domain of Fibroblast Growth Factor Receptor 3 Inhibits Ligand-Independent Dimerization. <i>Science Signaling</i> , 2010, 3, ra86.	3.6	51
14	Cell Adhesiveness Serves as a Biophysical Marker for Metastatic Potential. <i>Cancer Research</i> , 2020, 80, 901-911.	0.9	46
15	Direct Assessment of the Effect of the Gly380Arg Achondroplasia Mutation on FGFR3 Dimerization Using Quantitative Imaging FRET. <i>PLoS ONE</i> , 2012, 7, e46678.	2.5	45
16	Quantitative Measurements of Protein Interactions in a Crowded Cellular Environment. <i>Analytical Chemistry</i> , 2008, 80, 5976-5985.	6.5	38
17	3D Printed Vascular Networks Enhance Viability in High-Volume Perfusion Bioreactor. <i>Annals of Biomedical Engineering</i> , 2016, 44, 3435-3445.	2.5	34
18	Effects of Shear Stress Gradients on Ewing Sarcoma Cells Using 3D Printed Scaffolds and Flow Perfusion. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 347-356.	5.2	30

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19	Mechanical activation of noncoding-RNA-mediated regulation of disease-associated phenotypes in human cardiomyocytes. <i>Nature Biomedical Engineering</i> , 2019, 3, 137-146.	22.5	30
20	Effect of Thanatophoric Dysplasia Type I Mutations on FGFR3 Dimerization. <i>Biophysical Journal</i> , 2015, 108, 272-278.	0.5	29
21	Biomimetic Placenta-Fetus Model Demonstrating Maternal-Fetal Transmission and Fetal Neural Toxicity of Zika Virus. <i>Annals of Biomedical Engineering</i> , 2018, 46, 1963-1974.	2.5	28
22	Addressing present pitfalls in 3D printing for tissue engineering to enhance future potential. <i>APL Bioengineering</i> , 2020, 4, 010901.	6.2	28
23	Strong dimerization of wild-type ErbB2/Neu transmembrane domain and the oncogenic Val664Glu mutant in mammalian plasma membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 2326-2330.	2.6	15
24	Increased expression of the integral membrane protein ErbB2 in Chinese hamster ovary cells expressing the anti-apoptotic gene Bcl-xL. <i>Protein Expression and Purification</i> , 2009, 67, 41-47.	1.3	13
25	EGFRvIII uses intrinsic and extrinsic mechanisms to reduce glioma adhesion and increase migration. <i>Journal of Cell Science</i> , 2020, 133, .	2.0	8
26	H-Ras Transformation of Mammary Epithelial Cells Induces ERK-Mediated Spreading on Low Stiffness Matrix. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901366.	7.6	7
27	High shear stress enhances endothelial permeability in the presence of the risk haplotype at 9p21.3. <i>APL Bioengineering</i> , 2021, 5, 036102.	6.2	3
28	Probing Skeletal Dysplasias Caused by Mutations of FGFR3 Using Qi-FRET. <i>Biophysical Journal</i> , 2011, 100, 547a.	0.5	0
29	Dimerization of FGFR3 in Living Cells. <i>Biophysical Journal</i> , 2014, 106, 480a.	0.5	0
30	Blood Vessel Regeneration. , 2015, , 149-169.		0
31	A Perspective on the Impact of Additive Manufacturing on Future Biomaterials. , 2017, , 209-211.		0