Kandice Levental

List of Publications by Year
in descending order

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Version: 2024-02-01

42	10,590	147801	265206
papers	citations	31 h-index	42 g-index

46	46	46	13445
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tensional homeostasis and the malignant phenotype. Cancer Cell, 2005, 8, 241-254.	16.8	3,397
2	Matrix Crosslinking Forces Tumor Progression by Enhancing Integrin Signaling. Cell, 2009, 139, 891-906.	28.9	3,319
3	Plasma membranes are asymmetric in lipid unsaturation, packing and protein shape. Nature Chemical Biology, 2020, 16, 644-652.	8.0	414
4	Lipid Rafts: Controversies Resolved, Mysteries Remain. Trends in Cell Biology, 2020, 30, 341-353.	7.9	373
5	Tissue mechanics modulate microRNA-dependent PTEN expression to regulate malignant progression. Nature Medicine, 2014, 20, 360-367.	30.7	353
6	Structural determinants and functional consequences of protein affinity for membrane rafts. Nature Communications, 2017, 8, 1219.	12.8	231
7	FGF-2 and VEGF functionalization of starPEGâ€“heparin hydrogels to modulate biomolecular and physical cues of angiogenesis. Biomaterials, 2010, 31, 7985-7994.	11.4	187
8	Membrane raft association is a determinant of plasma membrane localization. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8500-8505.	7.1	178
9	Polyunsaturated Lipids Regulate Membrane Domain Stability by Tuning Membrane Order. Biophysical Journal, 2016, 110, 1800-1810.	0.5	155
10	Sustained delivery of SDF-1Î± from heparin-based hydrogels to attract circulating pro-angiogenic cells. Biomaterials, 2012, 33, 4792-4800.	11.4	152
11	Defined Polymerâ€“Peptide Conjugates to Form Cellâ€instructive starPEGâ€“Heparin Matrices In Situ. Advanced Materials, 2013, 25, 2606-2610.	21.0	141
12	Lipidomic and biophysical homeostasis of mammalian membranes counteracts dietary lipid perturbations to maintain cellular fitness. Nature Communications, 2020, 11, 1339.	12.8	126
13	Dual independent delivery of pro-angiogenic growth factors from starPEG-heparin hydrogels. Journal of Controlled Release, 2011, 156, 28-36.	9.9	116
14	Ï‰-3 polyunsaturated fatty acids direct differentiation of the membrane phenotype in mesenchymal stem cells to potentiate osteogenesis. Science Advances, 2017, 3, eaao1193.	10.3	105
15	A simple indentation device for measuring micrometer-scale tissue stiffness. Journal of Physics Condensed Matter, 2010, 22, 194120.	1.8	102
16	Heparin desulfation modulates VEGF release and angiogenesis in diabetic wounds. Journal of Controlled Release, 2015, 220, 79-88.	9.9	100
17	Enhanced neovasculature formation in ischemic myocardium following delivery of pleiotrophin plasmid in a biopolymer. Biomaterials, 2005, 26, 1139-1144.	11.4	97
18	Remodeling of the postsynaptic plasma membrane during neural development. Molecular Biology of the Cell, 2016, 27, 3480-3489.	2.1	89

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19	Giant Plasma Membrane Vesicles: Models for Understanding Membrane Organization. Current Topics in Membranes, 2015, 75, 25-57.	0.9	82
20	Rafting through traffic: Membrane domains in cellular logistics. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 3003-3013.	2.6	76
21	Demystifying the Effects of a Threeâ€Dimensional Microenvironment in Tissue Morphogenesis. Methods in Cell Biology, 2007, 83, 547-583.	1.1	72
22	Lipidomic atlas of mammalian cell membranes reveals hierarchical variation induced by culture conditions, subcellular membranes, and cell lineages. Soft Matter, 2021, 17, 288-297.	2.7	66
23	Using Mean Field Theory to Guide Biofunctional Materials Design. Advanced Functional Materials, 2012, 22, 1391-1398.	14.9	61
24	Two-tier hydrogel degradation to boost endothelial cell morphogenesis. Biomaterials, 2011, 32, 9649-9657.	11.4	58
25	Modular StarPEGâ€Heparin Gels with Bifunctional Peptide Linkers. Macromolecular Rapid Communications, 2010, 31, 1529-1533.	3.9	52
26	Domain Stability in Biomimetic Membranes Driven by Lipid Polyunsaturation. Journal of Physical Chemistry B, 2016, 120, 11930-11941.	2.6	52
27	Enzymatically degradable heparin-polyethylene glycol gels with controlled mechanical properties. Chemical Communications, 2010, 46, 1141-1143.	4.1	50
28	Isolation of Giant Plasma Membrane Vesicles for Evaluation of Plasma Membrane Structure and Protein Partitioning. Methods in Molecular Biology, 2015, 1232, 65-77.	0.9	50
29	Lipinâ€1 regulation of phospholipid synthesis maintains endoplasmic reticulum homeostasis and is critical for tripleâ€negative breast cancer cell survival. FASEB Journal, 2017, 31, 2893-2904.	0.5	44
30	Sphingomyelin Metabolism Is a Regulator of K-Ras Function. Molecular and Cellular Biology, 2018, 38, .	2.3	40
31	Regulatory TÂcell differentiation is controlled by Î±KG-induced alterations in mitochondrial metabolism and lipid homeostasis. Cell Reports, 2021, 37, 109911.	6.4	39
32	Modular GAG-matrices to promote mammary epithelial morphogenesis inÂvitro. Biomaterials, 2017, 112, 20-30.	11.4	37
33	Cell-Derived Plasma Membrane Vesicles Are Permeable to Hydrophilic Macromolecules. Biophysical Journal, 2020, 118, 1292-1300.	0.5	30
34	Lipidâ€"Protein Interactions in Plasma Membrane Organization and Function. Annual Review of Biophysics, 2022, 51, 135-156.	10.0	30
35	Analytical approaches to uptake and release of hydrogel-associated FGF-2. Journal of Materials Science: Materials in Medicine, 2010, 21, 915-923.	3.6	25
36	Tuning Length Scales of Small Domains in Cell-Derived Membranes and Synthetic ModelÂMembranes. Biophysical Journal, 2018, 115, 690-701.	0.5	24

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37	n-Alcohol Length Governs Shift in Lo-Ld Mixing Temperatures in Synthetic and Cell-Derived Membranes. Biophysical Journal, 2017, 113, 1200-1211.	0.5	22
38	Myelin-Associated MAL and PLP Are Unusual among Multipass Transmembrane Proteins in Preferring Ordered Membrane Domains. Journal of Physical Chemistry B, 2020, 124, 5930-5939.	2.6	21
39	Sustainable Growth Factor Delivery through Affinity-Based Adsorption to starPEG-Heparin Hydrogels. ACS Symposium Series, 2012, , 525-541.	0.5	3
40	Structural Determinants of Raft Partitioning for Single-Pass Transmembrane Proteins. Biophysical Journal, 2016, 110, 205a.	0.5	1
41	Reply to JJ Christensen et al.. American Journal of Clinical Nutrition, 2021, 113, 1712-1713.	4.7	0
42	The Differentiation of the Plasma Membrane. FASEB Journal, 2013, 27, 586.1.	0.5	0