

Kandice Levental

List of Publications by Year in descending order

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42
papers

10,590
citations

147801

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265206

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46
all docs

46
docs citations

46
times ranked

13445
citing authors

#	ARTICLE	IF	CITATIONS
1	Lipid-Protein Interactions in Plasma Membrane Organization and Function. Annual Review of Biophysics, 2022, 51, 135-156.	10.0	30
2	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
3	Reply to JJ Christensen et al.. American Journal of Clinical Nutrition, 2021, 113, 1712-1713.	4.7	0
4	Regulatory T cell differentiation is controlled by β -KG-induced alterations in mitochondrial metabolism and lipid homeostasis. Cell Reports, 2021, 37, 109911.	6.4	39
5	Plasma membranes are asymmetric in lipid unsaturation, packing and protein shape. Nature Chemical Biology, 2020, 16, 644-652.	8.0	414
6	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
7	Lipidomic and biophysical homeostasis of mammalian membranes counteracts dietary lipid perturbations to maintain cellular fitness. Nature Communications, 2020, 11, 1339.	12.8	126
8	Cell-Derived Plasma Membrane Vesicles Are Permeable to Hydrophilic Macromolecules. Biophysical Journal, 2020, 118, 1292-1300.	0.5	30
9	Lipid Rafts: Controversies Resolved, Mysteries Remain. Trends in Cell Biology, 2020, 30, 341-353.	7.9	373
10	Sphingomyelin Metabolism Is a Regulator of K-Ras Function. Molecular and Cellular Biology, 2018, 38, .	2.3	40
11	Tuning Length Scales of Small Domains in Cell-Derived Membranes and Synthetic Model Membranes. Biophysical Journal, 2018, 115, 690-701.	0.5	24
12	Lipin-1 regulation of phospholipid synthesis maintains endoplasmic reticulum homeostasis and is critical for triple-negative breast cancer cell survival. FASEB Journal, 2017, 31, 2893-2904.	0.5	44
13	Structural determinants and functional consequences of protein affinity for membrane rafts. Nature Communications, 2017, 8, 1219.	12.8	231
14	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
15	ω -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
16	Modular GAG-matrices to promote mammary epithelial morphogenesis in vitro. Biomaterials, 2017, 112, 20-30.	11.4	37
17	Polyunsaturated Lipids Regulate Membrane Domain Stability by Tuning Membrane Order. Biophysical Journal, 2016, 110, 1800-1810.	0.5	155
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	Domain Stability in Biomimetic Membranes Driven by Lipid Polyunsaturation. <i>Journal of Physical Chemistry B</i> , 2016, 120, 11930-11941.	2.6	52
20	Structural Determinants of Raft Partitioning for Single-Pass Transmembrane Proteins. <i>Biophysical Journal</i> , 2016, 110, 205a.	0.5	1
21	Giant Plasma Membrane Vesicles: Models for Understanding Membrane Organization. <i>Current Topics in Membranes</i> , 2015, 75, 25-57.	0.9	82
22	Heparin desulfation modulates VEGF release and angiogenesis in diabetic wounds. <i>Journal of Controlled Release</i> , 2015, 220, 79-88.	9.9	100
23	Isolation of Giant Plasma Membrane Vesicles for Evaluation of Plasma Membrane Structure and Protein Partitioning. <i>Methods in Molecular Biology</i> , 2015, 1232, 65-77.	0.9	50
24	Tissue mechanics modulate microRNA-dependent PTEN expression to regulate malignant progression. <i>Nature Medicine</i> , 2014, 20, 360-367.	30.7	353
25	Membrane raft association is a determinant of plasma membrane localization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 8500-8505.	7.1	178
26	Rafting through traffic: Membrane domains in cellular logistics. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 3003-3013.	2.6	76
27	Defined Polymer-peptide Conjugates to Form Cell-instructive starPEG-Heparin Matrices In Situ. <i>Advanced Materials</i> , 2013, 25, 2606-2610.	21.0	141
28	The Differentiation of the Plasma Membrane. <i>FASEB Journal</i> , 2013, 27, 586.1.	0.5	0
29	Sustainable Growth Factor Delivery through Affinity-Based Adsorption to starPEG-Heparin Hydrogels. <i>ACS Symposium Series</i> , 2012, , 525-541.	0.5	3
30	Using Mean Field Theory to Guide Biofunctional Materials Design. <i>Advanced Functional Materials</i> , 2012, 22, 1391-1398.	14.9	61
31	Sustained delivery of SDF-1 β from heparin-based hydrogels to attract circulating pro-angiogenic cells. <i>Biomaterials</i> , 2012, 33, 4792-4800.	11.4	152
32	Dual independent delivery of pro-angiogenic growth factors from starPEG-heparin hydrogels. <i>Journal of Controlled Release</i> , 2011, 156, 28-36.	9.9	116
33	Two-tier hydrogel degradation to boost endothelial cell morphogenesis. <i>Biomaterials</i> , 2011, 32, 9649-9657.	11.4	58
34	Analytical approaches to uptake and release of hydrogel-associated FGF-2. <i>Journal of Materials Science: Materials in Medicine</i> , 2010, 21, 915-923.	3.6	25
35	Modular StarPEG-Heparin Gels with Bifunctional Peptide Linkers. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1529-1533.	3.9	52
36	FGF-2 and VEGF functionalization of starPEG-heparin hydrogels to modulate biomolecular and physical cues of angiogenesis. <i>Biomaterials</i> , 2010, 31, 7985-7994.	11.4	187

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37	A simple indentation device for measuring micrometer-scale tissue stiffness. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 194120.	1.8	102
38	Enzymatically degradable heparin-polyethylene glycol gels with controlled mechanical properties. <i>Chemical Communications</i> , 2010, 46, 1141-1143.	4.1	50
39	Matrix Crosslinking Forces Tumor Progression by Enhancing Integrin Signaling. <i>Cell</i> , 2009, 139, 891-906.	28.9	3,319
40	Demystifying the Effects of a Three-Dimensional Microenvironment in Tissue Morphogenesis. <i>Methods in Cell Biology</i> , 2007, 83, 547-583.	1.1	72
41	Enhanced neovasculature formation in ischemic myocardium following delivery of pleiotrophin plasmid in a biopolymer. <i>Biomaterials</i> , 2005, 26, 1139-1144.	11.4	97
42	Tensional homeostasis and the malignant phenotype. <i>Cancer Cell</i> , 2005, 8, 241-254.	16.8	3,397