Banafshe Larijani

List of Publications by Year
in descending order

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91	3,850	147566	133063
papers	citations	31 h-index	59 g-index

113	113	113	5207
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nuclear Actin Regulates Dynamic Subcellular Localization and Activity of the SRF Cofactor MAL. Science, 2007, 316, 1749-1752.	6.0	569
2	eC-CLEM: flexible multidimensional registration software for correlative microscopies. Nature Methods, 2017, 14, 102-103.	9.0	255
3	Intramolecular and Intermolecular Interactions of Protein Kinase B Define Its Activation In Vivo. PLoS Biology, 2007, 5, e95.	2.6	254
4	Role of a Novel PH-Kinase Domain Interface in PKB/Akt Regulation: Structural Mechanism for Allosteric Inhibition. PLoS Biology, 2009, 7, e1000017.	2.6	220
5	Identification of a Novel Phosphonocarboxylate Inhibitor of Rab Geranylgeranyl Transferase That Specifically Prevents Rab Prenylation in Osteoclasts and Macrophages. Journal of Biological Chemistry, 2001, 276, 48213-48222.	1.6	153
6	RPEL Motifs Link the Serum Response Factor Cofactor MAL but Not Myocardin to Rho Signaling via Actin Binding. Molecular and Cellular Biology, 2008, 28, 732-742.	1.1	142
7	HER2 Phosphorylation Is Maintained by a PKB Negative Feedback Loop in Response to Anti-HER2 Herceptin in Breast Cancer. PLoS Biology, 2010, 8, e1000563.	2.6	116
8	Correlative and integrated light and electron microscopy of in-resin GFP fluorescence, used to localise diacylglycerol in mammalian cells. Ultramicroscopy, 2014, 143, 3-14.	0.8	113
9	Monitoring conformational changes of proteins in cells by fluorescence lifetime imaging microscopy. Biochemical Journal, 2003, 372, 33-40.	1.7	111
10	Compartmental signal modulation: Endosomal phosphatidylinositol 3-phosphate controls endosome morphology and selective cargo sorting. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 15473-15478.	3.3	89
11	PINCH1 regulates Akt1 activation and enhances radioresistance by inhibiting PP1Î±. Journal of Clinical Investigation, 2010, 120, 2516-2527.	3.9	89
12	Multiple Factors Contribute to Inefficient Prenylation of Rab27a in Rab Prenylation Diseases. Journal of Biological Chemistry, 2003, 278, 46798-46804.	1.6	65
13	Regulation of 3-Phosphoinositideâ€“Dependent Protein Kinase 1 Activity by Homodimerization in Live Cells. Science Signaling, 2010, 3, ra78.	1.6	65
14	HER2 Oncogenic Function Escapes EGFR Tyrosine Kinase Inhibitors via Activation of Alternative HER Receptors in Breast Cancer Cells. PLoS ONE, 2008, 3, e2881.	1.1	65
15	Acute Manipulation of Diacylglycerol Reveals Roles in Nuclear Envelope Assembly & Endoplasmic Reticulum Morphology. PLoS ONE, 2012, 7, e51150.	1.1	64
16	Patient-derived xenografts of triple-negative breast cancer reproduce molecular features of patient tumors and respond to mTOR inhibition. Breast Cancer Research, 2014, 16, R36.	2.2	63
17	Immunogenomics of Colorectal Cancer Response to CheckpointÂBlockade: Analysis of the KEYNOTE 177 Trial andÂValidation Cohorts. Gastroenterology, 2021, 161, 1179-1193.	0.6	62
18	Phosphatidylinositol metabolism and membrane fusion. Biochemical Journal, 2009, 418, 233-246.	1.7	59

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19	Prognostic Value of an Activation State Marker for Epidermal Growth Factor Receptor in Tissue Microarrays of Head and Neck Cancer. Cancer Research, 2006, 66, 2834-2843.	0.4	57
20	Correlative super-resolution fluorescence and electron microscopy using conventional fluorescent proteins in vacuo. Journal of Structural Biology, 2017, 199, 120-131.	1.3	55
21	Endomembrane PtdIns(3,4,5)P3 activates the PI3K/Akt pathway. Journal of Cell Science, 2015, 128, 3456-65.	1.2	50
22	3-D structure and dynamics of protein kinase Bâ€"new mechanism for the allosteric regulation of an AGC kinase. Journal of Chemical Biology, 2009, 2, 11-25.	2.2	48
23	Phospholipid identification and quantification of membrane vesicle subfractions by 31Pâˆ'1H two-dimensional nuclear magnetic resonance. Lipids, 2000, 35, 1289-1297.	0.7	45
24	Diacylglycerol Induces Fusion of Nuclear Envelope Membrane Precursor Vesicles. Journal of Biological Chemistry, 2005, 280, 41171-41177.	1.6	42
25	GGA function is required for maturation of neuroendocrine secretory granules. EMBO Journal, 2006, 25, 1590-1602.	3.5	42
26	EGF Regulation of PITP Dynamics Is Blocked by Inhibitors of Phospholipase C and of the Ras-MAP Kinase Pathway. Current Biology, 2003, 13, 78-84.	1.8	40
27	PLCÎ³ is enriched on poly-phosphoinositide-rich vesicles to control nuclear envelope assembly. Cellular Signalling, 2007, 19, 913-922.	1.7	40
28	Protein kinases, from B to C. Biochemical Society Transactions, 2007, 35, 1013-1017.	1.6	39
29	Nuclear Envelope Remnants: Fluid Membranes Enriched in STEROLS and Polyphosphoinositides. PLoS ONE, 2009, 4, e4255.	1.1	38
30	Detergent solubilization of phosphatidylcholine bilayers in the fluid state: Influence of the acyl chain structure. Biochimica Et Biophysica Acta - Biomembranes, 2006, 1758, 190-196.	1.4	34
31	Nuclear envelope assembly is promoted by phosphoinositide-specific phospholipase C with selective recruitment of phosphatidylinositol-enriched membranes. Biochemical Journal, 2005, 387, 393-400.	1.7	32
32	The PH Domain of Phosphoinositide-Dependent Kinase-1 Exhibits a Novel, Phospho-Regulated Monomerâ€"Dimer Equilibrium with Important Implications for Kinase Domain Activation: Single-Molecule and Ensemble Studies. Biochemistry, 2013, 52, 4820-4829.	1.2	31
33	Key Role of Polyphosphoinositides in Dynamics of Fusogenic Nuclear Membrane Vesicles. PLoS ONE, 2011, 6, e23859.	1.1	31
34	Role for phosphatidylinositol in nuclear envelope formation. Biochemical Journal, 2001, 356, 495-501.	1.7	30
35	Nuclear Envelope Formation: Mind the Gaps. Annual Review of Biophysics, 2009, 38, 107-124.	4.5	29
36	Accumulated Bending Energy Elicits Neutral Sphingomyelinase Activity inÂHuman Red Blood Cells. Biophysical Journal, 2012, 102, 2077-2085.	0.2	29

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37	Spatial Regulation of Membrane Fusion Controlled by Modification of Phosphoinositides. PLoS ONE, 2010, 5, e12208.	1.1	28
38	Polyunsaturated phosphatidylinositol and diacylglycerol substantially modify the fluidity and polymorphism of biomembranes: A solid-state deuterium NMR study. Lipids, 2006, 41, 925-932.	0.7	27
39	High PD-1/PD-L1 Checkpoint Interaction Infers Tumor Selection and Therapeutic Sensitivity to Anti-PD-1/PD-L1 Treatment. Cancer Research, 2020, 80, 4244-4257.	0.4	27
40	The unprecedented membrane deformation of the human nuclear envelope, in a magnetic field, indicates formation of nuclear membrane invaginations. Scientific Reports, 2020, 10, 5147.	1.6	27
41	Role for phosphatidylinositol in nuclear envelope formation. Biochemical Journal, 2001, 356, 495.	1.7	26
42	Acute regulation of PDK1 by a complex interplay of molecular switches. Biochemical Society Transactions, 2014, 42, 1435-1440.	1.6	26
43	A Small Molecule Inhibitor of PDK1/PLCÎ³1 Interaction Blocks Breast and Melanoma Cancer Cell Invasion. Scientific Reports, 2016, 6, 26142.	1.6	26
44	High-Throughput Time-Resolved FRET Reveals Akt/PKB Activation as a Poor Prognostic Marker in Breast Cancer. Cancer Research, 2014, 74, 4983-4995.	0.4	24
45	Detecting Protein-Phospholipid Interactions. Journal of Biological Chemistry, 2002, 277, 22974-22979.	1.6	22
46	Phosphorylation of a Distinct Structural Form of Phosphatidylinositol Transfer Protein Î± at Ser166 by Protein Kinase C Disrupts Receptor-mediated Phospholipase C Signaling by Inhibiting Delivery of Phosphatidylinositol to Membranes. Journal of Biological Chemistry, 2004, 279, 47159-47171.	1.6	21
47	The von Hippelâ€“Lindau tumour-suppressor protein interaction with protein kinase CÎ´. Biochemical Journal, 2006, 397, 109-120.	1.7	19
48	Restricted State Selection in Fluorescent Protein FÃ¶rster Resonance Energy Transfer. Journal of the American Chemical Society, 2013, 135, 7883-7890.	6.6	16
49	Standard fluorescent proteins as dual-modality probes for correlative experiments in an integrated light and electron microscope. Journal of Chemical Biology, 2015, 8, 179-188.	2.2	15
50	Probing the dynamics of intact cells and nuclear envelope precursor membrane vesicles by deuterium solid state NMR spectroscopy. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 2516-2527.	1.4	14
51	Differential activation of the PI 3-kinase effectors AKT/PKB and p70 S6 kinase by compound 48/80 is mediated by PKCÎ±. Cellular Signalling, 2007, 19, 321-329.	1.7	14
52	Lipid species affect morphology of endoplasmic reticulum: a sea urchin oocyte model of reversible manipulation. Journal of Lipid Research, 2019, 60, 1880-1891.	2.0	14
53	A Complex Interplay of Anionic Phospholipid Binding Regulates 3â€²-Phosphoinositide-Dependent-Kinase-1 Homodimer Activation. Scientific Reports, 2019, 9, 14527.	1.6	12
54	Tandem NMR and Mass Spectrometry Analysis of Human Nuclear Membrane Lipids. Analytical Chemistry, 2020, 92, 6858-6868.	3.2	11

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55	Nuclear Envelope Formation In Vitro: A Sea Urchin Egg Cell-Free System. Methods in Molecular Biology, 2008, 464, 207-223.	0.4	11
56	Protein and lipid signaling in membrane fusion: nuclear envelope assembly. Signal Transduction, 2007, 7, 142-153.	0.7	10
57	Tyrosine kinase regulation of nuclear envelope assembly. Advances in Enzyme Regulation, 2009, 49, 148-156.	2.9	10
58	Time resolved amplified FRET identifies protein kinase B activation state as a marker for poor prognosis in clear cell renal cell carcinoma. BBA Clinical, 2017, 8, 97-102.	4.1	8
59	Characterisation of lipids in cell signalling and membrane dynamics by nuclear magnetic resonance spectroscopy and mass spectrometry. Signal Transduction, 2006, 6, 133-143.	0.7	7
60	Role of the C-terminal regulatory domain in the allosteric inhibition of PKB/Akt. Advances in Biological Regulation, 2012, 52, 46-57.	1.4	7
61	Quantifying intracellular equilibrium dissociation constants using singleâ€channel timeâ€resolved FRET. Journal of Biophotonics, 2018, 11, e201600272.	1.1	7
62	Effects of Phosphoinositides and Their Derivatives on Membrane Morphology and Function. Current Topics in Microbiology and Immunology, 2012, 362, 99-110.	0.7	7
63	A Structural Role for Lipids in Organelle Shaping. Biological Bulletin, 2013, 224, 218-226.	0.7	7
64	Dynamics of PLCÎ³ and Src Family Kinase 1 Interactions during Nuclear Envelope Formation Revealed by FRET-FLIM. PLoS ONE, 2012, 7, e40669.	1.1	7
65	Conservation of proteo-lipid nuclear membrane fusion machinery during early embryogenesis. Nucleus, 2014, 5, 441-448.	0.6	6
66	Principle of duality in phospholipids: regulators of membrane morphology and dynamics. Biochemical Society Transactions, 2014, 42, 1335-1342.	1.6	6
67	Acute depletion of diacylglycerol from the cis-Golgi affects localized nuclear envelope morphology during mitosis. Journal of Lipid Research, 2018, 59, 1402-1413.	2.0	6
68	Revealing Signaling in Single Cells by Single- and Two-Photon Fluorescence Lifetime Imaging Microscopy. Methods in Molecular Biology, 2009, 462, 1-37.	0.4	6
69	Role of phospholipase C in nuclear envelope assembly. Clinical Lipidology, 2009, 4, 103-112.	0.4	5
70	Vesicular PtdIns(3,4,5)P3 and Rab 7 are key effectors of zygote nuclear membrane fusion. Journal of Cell Science, 2016, 130, 444-452.	1.2	5
71	The enigma of phosphoinositides and their derivatives: Their role in regulation of subcellular compartment morphology. Biochimica Et Biophysica Acta - Biomembranes, 2022, 1864, 183780.	1.4	5
72	Lipid Quantification and Structure Determination of Nuclear Envelope Precursor Membranes in the Sea Urchin. Methods in Molecular Biology, 2009, 462, 1-22.	0.4	5

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73	Uncoupling TORC2 from AGC kinases inhibits tumour growth. Oncotarget, 2017, 8, 84685-84696.	0.8	5
74	Functional implications of assigned, assumed and assembled PKC structures. Biochemical Society Transactions, 2014, 42, 35-41.	1.6	4
75	The role of phosphoinositides in mast cell signalling. Signal Transduction, 2006, 6, 81-91.	0.7	3
76	Protein Activation Dynamics in Cells and Tumor Micro Arrays Assessed by Time Resolved FÃ¶rster Resonance Energy Transfer. Methods in Enzymology, 2012, 506, 225-246.	0.4	3
77	Quantification of biomarker functionality predicts patient outcomes. British Journal of Cancer, 2021, 124, 1618-1620.	2.9	3
78	Quantification of protein-protein interactions and activation dynamics: A new path to predictive biomarkers. Biophysical Chemistry, 2022, 283, 106768.	1.5	3
79	Acute depletion of plasma membrane phospholipidsâ€"dissecting the roles of PtdIns(4)P and PtdIns(4,5)P2. Journal of Chemical Biology, 2012, 5, 137-139.	2.2	2
80	The Use of Two-Photon FRETâ€“FLIM to Study Protein Interactions During Nuclear Envelope Fusion In Vivo and In Vitro. Methods in Molecular Biology, 2016, 1411, 123-132.	0.4	2
81	Not just another journal. Journal of Chemical Biology, 2008, 1, 1-2.	2.2	1
82	Localised interventions in cellular processes. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2013, 1834, 1364-1370.	1.1	1
83	Functional proteomic biomarkers in cancer. Annals of the New York Academy of Sciences, 2015, 1346, 1-6.	1.8	1
84	3D interactive model of PKB shows how it functions in cells. Oncology Times UK, 2009, 6, 5.	0.0	0
85	Membrane Fusion is Spatially Controlled by Modification of Phosphoinositides. Biophysical Journal, 2010, 98, 674a.	0.2	0
86	Single and Two-Photon Sensitized Acceptor Emission and Anisotropy Studies of Protein-Protein Interactions. Biophysical Journal, 2011, 100, 175a.	0.2	0
87	Lipid-dependent and -independent regulation of nuclear envelope disassembly. Journal of Chemical Biology, 2013, 6, 3-5.	2.2	0
88	In-Situ Description of the Role of PtdIns(3,4,5)P3 and PtdSer on PDK1 Regulation in Human Cancer Cells by Advanced Quantitative Microscopy. Biophysical Journal, 2014, 106, 522a-523a.	0.2	0
89	Last issue of journal of chemical biology. Journal of Chemical Biology, 2017, 10, 157-157.	2.2	0
90	A Reevaluation of the Role of Phosphatidylinositol Transfer Protein a in Growth Factor Signaling. FASEB Journal, 2018, 32, 540.5.	0.2	0

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91	Quadrupole and hexadecapole transition dipole moment alignment in fluorescent protein Homo-FRET. , 2018, , .		0