

Guangwei Du

List of Publications by Year in descending order

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78
papers

4,402
citations

117571

34
h-index

106281

65
g-index

83
all docs

83
docs citations

83
times ranked

5882
citing authors

#	ARTICLE	IF	CITATIONS
1	Phospholipase D2-generated phosphatidic acid couples EGFR stimulation to Ras activation by Sos. <i>Nature Cell Biology</i> , 2007, 9, 707-712.	4.6	283
2	Microbial Genetic Composition Tunes Host Longevity. <i>Cell</i> , 2017, 169, 1249-1262.e13.	13.5	256
3	5-Fluoro-2-indolyl des-chlorohalopemide (FIPI), a Phospholipase D Pharmacological Inhibitor That Alters Cell Spreading and Inhibits Chemotaxis. <i>Molecular Pharmacology</i> , 2009, 75, 437-446.	1.0	233
4	3â€² End cDNA amplification using classic RACE. <i>Nature Protocols</i> , 2006, 1, 2742-2745.	5.5	213
5	5â€² end cDNA amplification using classic RACE. <i>Nature Protocols</i> , 2006, 1, 2555-2562.	5.5	206
6	Phospholipase D2 Localizes to the Plasma Membrane and Regulates Angiotensin II Receptor Endocytosis. <i>Molecular Biology of the Cell</i> , 2004, 15, 1024-1030.	0.9	194
7	Phospholipase D1 Production of Phosphatidic Acid at the Plasma Membrane Promotes Exocytosis of Large Dense-core Granules at a Late Stage. <i>Journal of Biological Chemistry</i> , 2007, 282, 21746-21757.	1.6	185
8	PLD1 Regulates mTOR Signaling and Mediates Cdc42 Activation of S6K1. <i>Current Biology</i> , 2003, 13, 2037-2044.	1.8	156
9	Regulation of phospholipase D1 subcellular cycling through coordination of multiple membrane association motifs. <i>Journal of Cell Biology</i> , 2003, 162, 305-315.	2.3	154
10	Class III PI-3-kinase activates phospholipase D in an amino acidâ€”sensing mTORC1 pathway. <i>Journal of Cell Biology</i> , 2011, 195, 435-447.	2.3	146
11	The lymphocyte function-associated antigen-1 receptor costimulates plasma membrane Ras via phospholipase D2. <i>Nature Cell Biology</i> , 2007, 9, 713-719.	4.6	143
12	Dynamics and Function of Phospholipase D and Phosphatidic Acid During Phagocytosis. <i>Traffic</i> , 2006, 7, 365-377.	1.3	123
13	Phospholipase D2-Dependent Inhibition of the Nuclear Hormone Receptor PPAR γ by Cyclic Phosphatidic Acid. <i>Molecular Cell</i> , 2010, 39, 421-432.	4.5	117
14	Cardiac Phospholipase D2 Localizes to Sarcolemmal Membranes and Is Inhibited by β -Actinin in an ADP-ribosylation Factor-reversible Manner. <i>Journal of Biological Chemistry</i> , 2000, 275, 21295-21301.	1.6	112
15	Dual Requirement for Rho and Protein Kinase C in Direct Activation of Phospholipase D1 Through G Protein-coupled Receptor Signaling. <i>Molecular Biology of the Cell</i> , 2000, 11, 4359-4368.	0.9	108
16	Temporal Production of the Signaling Lipid Phosphatidic Acid by Phospholipase D2 Determines the Output of Extracellular Signal-Regulated Kinase Signaling in Cancer Cells. <i>Molecular and Cellular Biology</i> , 2014, 34, 84-95.	1.1	104
17	Design of expression vectors for RNA interference based on miRNAs and RNA splicing. <i>FEBS Journal</i> , 2006, 273, 5421-5427.	2.2	93
18	Phosphatidic acid is required for the constitutive ruffling and macropinocytosis of phagocytes. <i>Molecular Biology of the Cell</i> , 2013, 24, 1700-1712.	0.9	90

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19	Epidermal Growth Factor Receptor Activation Remodels the Plasma Membrane Lipid Environment To Induce Nanocluster Formation. <i>Molecular and Cellular Biology</i> , 2010, 30, 3795-3804.	1.1	87
20	Phosphatidic acid signaling regulation of Ras superfamily of small guanosine triphosphatases. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2009, 1791, 850-855.	1.2	76
21	Lipidomic atlas of mammalian cell membranes reveals hierarchical variation induced by culture conditions, subcellular membranes, and cell lineages. <i>Soft Matter</i> , 2021, 17, 288-297.	1.2	66
22	Binding of PLD2-Generated Phosphatidic Acid to KIF5B Promotes MT1-MMP Surface Trafficking and Lung Metastasis of Mouse Breast Cancer Cells. <i>Developmental Cell</i> , 2017, 43, 186-197.e7.	3.1	63
23	Drosophila TRPML Forms PI(3,5)P2-activated Cation Channels in Both Endolysosomes and Plasma Membrane. <i>Journal of Biological Chemistry</i> , 2014, 289, 4262-4272.	1.6	62
24	Vps34 regulates Rab7 and late endocytic trafficking through recruitment of the GTPase activating protein Armus. <i>Journal of Cell Science</i> , 2016, 129, 4424-4435.	1.2	59
25	Retinoids activate the irritant receptor TRPV1 and produce sensory hypersensitivity. <i>Journal of Clinical Investigation</i> , 2013, 123, 3941-3951.	3.9	57
26	Amplification of 5' end cDNA with 'new RACE'. <i>Nature Protocols</i> , 2006, 1, 3056-3061.	5.5	48
27	Lipin α 1 regulation of phospholipid synthesis maintains endoplasmic reticulum homeostasis and is critical for triple-negative breast cancer cell survival. <i>FASEB Journal</i> , 2017, 31, 2893-2904.	0.2	44
28	Phosphatidic acid regulation of PIPKI is critical for actin cytoskeletal reorganization. <i>Journal of Lipid Research</i> , 2012, 53, 2598-2609.	2.0	43
29	The VPS-34 PI3 kinase negatively regulates RAB-5 during endosome maturation. <i>Journal of Cell Science</i> , 2017, 130, 2007-2017.	1.2	40
30	Insulin-induced phospholipase D1 and phospholipase D2 activity in human embryonic kidney-293 cells mediated by the phospholipase C β 3 and protein kinase C α signalling cascade. <i>Biochemical Journal</i> , 2000, 351, 613-619.	1.7	38
31	Phospholipase D1 Regulates Lymphocyte Adhesion via Upregulation of Rap1 at the Plasma Membrane. <i>Molecular and Cellular Biology</i> , 2009, 29, 3297-3306.	1.1	38
32	Increased expression of two phospholipase D isoforms during experimentally induced hippocampal mossy fiber outgrowth. <i>Glia</i> , 2004, 46, 74-83.	2.5	37
33	Inhibition of Epac1 suppresses mitochondrial fission and reduces neointima formation induced by vascular injury. <i>Scientific Reports</i> , 2016, 6, 36552.	1.6	37
34	Therapeutic Levels of the Hydroxymethylglutaryl-Coenzyme A Reductase Inhibitor Lovastatin Activate Ras Signaling via Phospholipase D2. <i>Molecular and Cellular Biology</i> , 2011, 31, 1110-1120.	1.1	36
35	Basis for the Isoform-specific Interaction of Myosin Phosphatase Subunits Protein Phosphatase 1c β 2 and Myosin Phosphatase Targeting Subunit 1. <i>Journal of Biological Chemistry</i> , 2010, 285, 6419-6424.	1.6	35
36	Diacylglycerol Kinases Terminate Diacylglycerol Signaling during the Respiratory Burst Leading to Heterogeneous Phagosomal NADPH Oxidase Activation. <i>Journal of Biological Chemistry</i> , 2013, 288, 23090-23104.	1.6	35

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37	A Lipid-signaled Myosin Phosphatase Surge Disperses Cortical Contractile Force Early in Cell Spreading. <i>Molecular Biology of the Cell</i> , 2009, 20, 200-208.	0.9	34
38	Rapid affinity purification of intracellular organelles using twin strep tag. <i>Journal of Cell Science</i> , 2019, 132, .	1.2	34
39	Ca ²⁺ - and phospholipase D-dependent and -independent pathways activate mTOR signaling. <i>FEBS Letters</i> , 2003, 550, 51-56.	1.3	32
40	A role for Phospholipase D in <i>Drosophila</i> embryonic cellularization. <i>BMC Developmental Biology</i> , 2006, 6, 60.	2.1	32
41	CDKL2 promotes epithelial-mesenchymal transition and breast cancer progression. <i>Oncotarget</i> , 2014, 5, 10840-10853.	0.8	32
42	Phosphatidic Acid Produced by Ra1A-activated PLD2 Stimulates Caveolae-mediated Endocytosis and Trafficking in Endothelial Cells. <i>Journal of Biological Chemistry</i> , 2016, 291, 20729-20738.	1.6	30
43	Dependence of Phospholipase D1 Multi-monoubiquitination on Its Enzymatic Activity and Palmitoylation. <i>Journal of Biological Chemistry</i> , 2010, 285, 13580-13588.	1.6	29
44	Phospholipase D1-regulated autophagy supplies free fatty acids to counter nutrient stress in cancer cells. <i>Cell Death and Disease</i> , 2016, 7, e2448-e2448.	2.7	29
45	Paired related homeobox 1 transactivates dopamine D2 receptor to maintain propagation and tumorigenicity of glioma-initiating cells. <i>Journal of Molecular Cell Biology</i> , 2017, 9, 302-314.	1.5	25
46	CAMK2/CaMKII activates MLKL in short-term starvation to facilitate autophagic flux. <i>Autophagy</i> , 2022, 18, 726-744.	4.3	25
47	Calphostin-C Induction of Vascular Smooth Muscle Cell Apoptosis Proceeds through Phospholipase D and Microtubule Inhibition. <i>Journal of Biological Chemistry</i> , 2004, 279, 7112-7118.	1.6	24
48	Peroxiredoxin II functions as a signal terminator for H ₂ O ₂ -activated phospholipase D1. <i>FEBS Journal</i> , 2005, 272, 3929-3937.	2.2	21
49	RhoA-mediated Phospholipase D1 signaling is not required for the formation of stress fibers and focal adhesions. <i>Cellular Signalling</i> , 2006, 18, 469-478.	1.7	20
50	Transcriptional coactivator CBP upregulates hTERT expression and tumor growth and predicts poor prognosis in human lung cancers. <i>Oncotarget</i> , 2014, 5, 9349-9361.	0.8	20
51	Novel role of dynamin-related protein 1 in dynamics of ER lipid droplets in adipose tissue. <i>FASEB Journal</i> , 2020, 34, 8265-8282.	0.2	20
52	ASH2L: alternative splicing and downregulation during induced megakaryocytic differentiation of multipotential leukemia cell lines. <i>Journal of Molecular Medicine</i> , 2001, 79, 399-405.	1.7	19
53	Phospholipase D2 restores endothelial barrier function by promoting PTPN14-mediated VE-cadherin dephosphorylation. <i>Journal of Biological Chemistry</i> , 2020, 295, 7669-7685.	1.6	17
54	Insulin-induced phospholipase D1 and phospholipase D2 activity in human embryonic kidney-293 cells mediated by the phospholipase C β 3 and protein kinase C α signalling cascade. <i>Biochemical Journal</i> , 2000, 351, 613.	1.7	15

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55	Small molecule metabolite biomarkers for hepatocellular carcinoma with bile duct tumor thrombus diagnosis. <i>Scientific Reports</i> , 2018, 8, 3309.	1.6	15
56	G-Protein-Coupled Receptor Regulation of Phospholipase D. <i>Methods in Enzymology</i> , 2002, 345, 265-274.	0.4	13
57	PLD-dependent phosphatidic acid microdomains are signaling platforms for podosome formation. <i>Scientific Reports</i> , 2019, 9, 3556.	1.6	13
58	Phosphatidic acid generated by PLD2 promotes the plasma membrane recruitment of IQGAP1 and neointima formation. <i>FASEB Journal</i> , 2019, 33, 6713-6725.	0.2	12
59	Monitoring Phosphatidic Acid Signaling in Breast Cancer Cells Using Genetically Encoded Biosensors. <i>Methods in Molecular Biology</i> , 2016, 1406, 225-237.	0.4	12
60	Analysis of Invadopodia Formation in Breast Cancer Cells. <i>Methods in Molecular Biology</i> , 2016, 1406, 203-210.	0.4	11
61	Bile acids target proteolipid nano-assemblies of EGFR and phosphatidic acid in the plasma membrane for stimulation of MAPK signaling. <i>PLoS ONE</i> , 2018, 13, e0198983.	1.1	9
62	pSM155 and pSM30 Vectors for miRNA and shRNA Expression. <i>Methods in Molecular Biology</i> , 2009, 487, 1-15.	0.4	8
63	Phosphatidic acid^PPKA signaling regulates p38 and ERK1/2 functions in ligand-independent EGFR endocytosis. <i>Traffic</i> , 2021, 22, 345-361.	1.3	7
64	Phosphatidic acid-dependent localization and basal de-phosphorylation of RA-GEFs regulate lymphocyte trafficking. <i>BMC Biology</i> , 2020, 18, 75.	1.7	6
65	Illustrating human PLD. <i>Nature Chemical Biology</i> , 2020, 16, 364-365.	3.9	5
66	miRNA and shRNA Expression Vectors Based on mRNA and miRNA Processing. <i>Methods in Molecular Biology</i> , 2013, 936, 195-207.	0.4	4
67	Phosphatidic acid regulates subcellular distribution of RA-GEFs critical for chemokine-dependent migration. <i>Biochemical and Biophysical Research Communications</i> , 2020, 524, 325-331.	1.0	4
68	Increased lipogenesis in cancer. <i>Communicative and Integrative Biology</i> , 2009, 2, 545-548.	0.6	3
69	Isolation and expression pattern analysis of novel ESTs from human fetal brain. <i>Science Bulletin</i> , 1998, 43, 1815-1819.	1.7	2
70	PLD1 promotes reactive oxygen species production in vascular smooth muscle cells and injury-induced neointima formation. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2022, 1867, 159062.	1.2	2
71	Phospholipid catabolism. , 2021, , 259-280.		1
72	Cloning of a novel gene encoding human thioredoxin-like protein. <i>Science Bulletin</i> , 1999, 44, 1673-1676.	1.7	0

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73	Cloning and identification ofPHF2 cDNA and its alternatively spliced transcripts. Science Bulletin, 1999, 44, 1382-1387.	1.7	0
74	Isolation and cloning of a novel cDNALDB1 encoding human LIM domain binding protein. Science Bulletin, 1999, 44, 1114-1119.	1.7	0
75	Cloning and expression analysis ofMBLL cDNA. Science Bulletin, 2000, 45, 620-625.	1.7	0
76	Cloning of human and mouseGRY-RBP cDNA. Science Bulletin, 2000, 45, 343-350.	1.7	0
77	Lysophosphatidate Promotes Sphingosine 1-Phosphate Metabolism and Signaling: Implications for Breast Cancer and Doxorubicin Resistance. Cell Biochemistry and Biophysics, 2021, 79, 531-545.	0.9	0
78	Role of Phospholipase D in Actin Cytoskeletal Reorganization of Epithelium Cells. FASEB Journal, 2006, 20, A1373.	0.2	0