Chuanyue Wu

List of Publications by Year
in descending order

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115 papers	7,767 citations	41344 49 h-index	53230 85 g-index
116 all docs	116 docs citations	116 times ranked	6157 citing authors

#	Article	IF	Citations
1	Integrin-linked kinase (ILK) and its interactors. Journal of Cell Biology, 2001, 155, 505-510.	5.2	435
2	Migfilin and Mig-2 Link Focal Adhesions to Filamin and the Actin Cytoskeleton and Function in Cell Shape Modulation. Cell, 2003, 113, 37-47.	28.9	330
3	Kindlin-2 (Mig-2): a co-activator of Î²3 integrins. Journal of Cell Biology, 2008, 181, 439-446.	5.2	314
4	Role for integrin-linked kinase in mediating tubular epithelial to mesenchymal transition and renal interstitial fibrogenesis. Journal of Clinical Investigation, 2003, 112, 503-516.	8.2	314
5	The LIM-Only Protein PINCH Directly Interacts with Integrin-Linked Kinase and Is Recruited to Integrin-Rich Sites in Spreading Cells. Molecular and Cellular Biology, 1999, 19, 2425-2434.	2.3	278
6	Integrin-linked Protein Kinase Regulates Fibronectin Matrix Assembly, E-cadherin Expression, and Tumorigenicity. Journal of Biological Chemistry, 1998, 273, 528-536.	3.4	257
7	Kindlins: essential regulators of integrin signalling and cellâ€“matrix adhesion. EMBO Reports, 2008, 9, 1203-1208.	4.5	223
8	A New Focal Adhesion Protein That Interacts with Integrin-Linked Kinase and Regulates Cell Adhesion and Spreading. Journal of Cell Biology, 2001, 153, 585-598.	5.2	212
9	PINCH-1 Is an Obligate Partner of Integrin-linked Kinase (ILK) Functioning in Cell Shape Modulation, Motility, and Survival. Journal of Biological Chemistry, 2003, 278, 51324-51333.	3.4	185
10	Nck-2, a Novel Src Homology2/3-containing Adaptor Protein That Interacts with the LIM-only Protein PINCH and Components of Growth Factor Receptor Kinase-signaling Pathways. Molecular Biology of the Cell, 1998, 9, 3367-3382.	2.1	174
11	Assembly of the PINCH-ILK-CH-ILKBP complex precedes and is essential for localization of each component to cell-matrix adhesion sites. Journal of Cell Science, 2002, 115, 4777-4786.	2.0	173
12	The Pseudoactive Site of ILK Is Essential for Its Binding to Î±-Parvin and Localization to Focal Adhesions. Molecular Cell, 2009, 36, 819-830.	9.7	157
13	The MIG-2/Integrin Interaction Strengthens Cell-Matrix Adhesion and Modulates Cell Motility. Journal of Biological Chemistry, 2007, 282, 20455-20466.	3.4	154
14	The PINCHâ€“ILKâ€“parvin complexes: assembly, functions and regulation. Biochimica Et Biophysica Acta - Molecular Cell Research, 2004, 1692, 55-62.	4.1	137
15	Inhibition of integrin-linked kinase blocks podocyte epithelialâ€“mesenchymal transition and ameliorates proteinuria. Kidney International, 2010, 78, 363-373.	5.2	134
16	Structural basis of kindlin-mediated integrin recognition and activation. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9349-9354.	7.1	130
17	Integration of Cell Attachment, Cytoskeletal Localization, and Signaling by Integrin-linked Kinase (ILK), CH-ILKBP, and the Tumor Suppressor PTEN. Molecular Biology of the Cell, 2003, 14, 4813-4825.	2.1	129
18	Essential Role of Integrin-Linked Kinase in Podocyte Biology. Journal of the American Society of Nephrology: JASN, 2006, 17, 2164-2175.	6.1	123

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19	Structure of an Ultraweak Protein-Protein Complex and Its Crucial Role in Regulation of Cell Morphology and Motility. Molecular Cell, 2005, 17, 513-523.	9.7	116
20	ILK: a pseudokinase in the center stage of cell-matrix adhesion and signaling. Current Opinion in Cell Biology, 2012, 24, 607-613.	5.4	105
21	A Critical Role of the PINCH-Integrin-linked Kinase Interaction in the Regulation of Cell Shape Change and Migration. Journal of Biological Chemistry, 2002, 277, 318-326.	3.4	103
22	Migfilin, a Molecular Switch in Regulation of Integrin Activation. Journal of Biological Chemistry, 2009, 284, 4713-4722.	3.4	98
23	Characterization of PINCH-2, a New Focal Adhesion Protein That Regulates the PINCH-1-ILK Interaction, Cell Spreading, and Migration. Journal of Biological Chemistry, 2002, 277, 38328-38338.	3.4	97
24	PINCH, N(i)ck and the ILK: network wiring at cellâ€“matrix adhesions. Trends in Cell Biology, 2005, 15, 460-466.	7.9	96
25	Structural Basis of Phosphoinositide Binding to Kindlin-2 Protein Pleckstrin Homology Domain in Regulating Integrin Activation. Journal of Biological Chemistry, 2011, 286, 43334-43342.	3.4	95
26	Kindlin-2 controls TGF-Î² signalling and Sox9 expression to regulate chondrogenesis. Nature Communications, 2015, 6, 7531.	12.8	93
27	Kindlin-2 regulates podocyte adhesion and fibronectin matrix deposition through interactions with phosphoinositides and integrins. Journal of Cell Science, 2011, 124, 879-891.	2.0	92
28	Tissue-type plasminogen activator promotes murine myofibroblast activation through LDL receptorâ€“related protein 1â€“mediated integrin signaling. Journal of Clinical Investigation, 2007, 117, 3821-32.	8.2	91
29	Kindlin-2 links mechano-environment to proline synthesis and tumor growth. Nature Communications, 2019, 10, 845.	12.8	85
30	Distinct Roles of Two Structurally Closely Related Focal Adhesion Proteins, Î±-Parvins and Î²-Parvins, in Regulation of Cell Morphology and Survival. Journal of Biological Chemistry, 2004, 279, 41695-41705.	3.4	84
31	Liver-specific ablation of integrin-linked kinase in mice results in abnormal histology, enhanced cell proliferation, and hepatomegaly. Hepatology, 2008, 48, 1932-1941.	7.3	79
32	The Distribution and Regulation of Integrin-Linked Kinase in Normal and Diabetic Kidneys. American Journal of Pathology, 2001, 159, 1735-1742.	3.8	78
33	Regulation of fibronectin matrix deposition and cell proliferation by the PINCHâ€ILKâ€CHâ€ILKBP complex. FASEB Journal, 2002, 16, 1298-1300.	0.5	75
34	The Roles of Integrin-Linked Kinase in the Regulation of Myogenic Differentiation. Journal of Cell Biology, 2000, 150, 861-872.	5.2	72
35	Kindlin-2 regulates mesenchymal stem cell differentiation through control of YAP1/TAZ. Journal of Cell Biology, 2018, 217, 1431-1451.	5.2	71
36	Solution Structure of the Focal Adhesion Adaptor PINCH LIM1 Domain and Characterization of Its Interaction with the Integrin-linked Kinase Ankyrin Repeat Domain. Journal of Biological Chemistry, 2001, 276, 4932-4939.	3.4	70

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37	Focal Adhesion: A Focal Point in Current Cell Biology and Molecular Medicine. Cell Adhesion and Migration, 2007, 1, 13-18.	2.7	68
38	PINCH-1 Regulates the ERK-Bim Pathway and Contributes to Apoptosis Resistance in Cancer Cells. Journal of Biological Chemistry, 2008, 283, 2508-2517.	3.4	67
39	Migfilin and its binding partners: from cell biology to human diseases. Journal of Cell Science, 2005, 118, 659-664.	2.0	66
40	Structural and functional insights into PINCH LIM4 domainâ€“mediated integrin signaling. Nature Structural and Molecular Biology, 2003, 10, 558-564.	8.2	64
41	CH-ILKBP regulates cell survival by facilitating the membrane translocation of protein kinase B/Akt. Journal of Cell Biology, 2003, 160, 1001-1008.	5.2	63
42	Formation and Phosphorylation of the PINCH-1â€“Integrin Linked Kinaseâ€“Î±-Parvin Complex Are Important for Regulation of Renal Glomerular Podocyte Adhesion, Architecture, and Survival. Journal of the American Society of Nephrology: JASN, 2005, 16, 1966-1976.	6.1	58
43	PINCH-1 Promotes Tubular Epithelial-to-Mesenchymal Transition by Interacting with Integrin-Linked Kinase. Journal of the American Society of Nephrology: JASN, 2007, 18, 2534-2543.	6.1	58
44	Migfilin Interacts with Vasodilator-stimulated Phosphoprotein (VASP) and Regulates VASP Localization to Cell-Matrix Adhesions and Migration. Journal of Biological Chemistry, 2006, 281, 12397-12407.	3.4	57
45	Critical Role of Filamin-binding LIM Protein 1 (FBLP-1)/Migfilin in Regulation of Bone Remodeling. Journal of Biological Chemistry, 2012, 287, 21450-21460.	3.4	57
46	Mechanical signals control SOX-9, VEGF, and c-Myc expression and cell proliferation during inflammation via integrin-linked kinase, B-Raf, and ERK1/2-dependent signaling in articular chondrocytes. Arthritis Research and Therapy, 2010, 12, R106.	3.5	56
47	Loss of integrin linked kinase from mouse hepatocytesin vitro andin vivo results in apoptosis and hepatitis. Hepatology, 2007, 45, 1025-1034.	7.3	55
48	Aging Reduces an ERRalpha-Directed Mitochondrial Glutaminase Expression Suppressing Glutamine Anaplerosis and Osteogenic Differentiation of Mesenchymal Stem Cells. Stem Cells, 2017, 35, 411-424.	3.2	54
49	Targeted Ablation of PINCH1 and PINCH2 From Murine Myocardium Results in Dilated Cardiomyopathy and Early Postnatal Lethality. Circulation, 2009, 120, 568-576.	1.6	53
50	Molecular Dissection of PINCH-1 Reveals a Mechanism of Coupling and Uncoupling of Cell Shape Modulation and Survival. Journal of Biological Chemistry, 2005, 280, 27631-27637.	3.4	51
51	Integrin-linked Kinase Regulates N-WASp-mediated Actin Polymerization and Tension Development in Tracheal Smooth Muscle. Journal of Biological Chemistry, 2007, 282, 34568-34580.	3.4	51
52	Integrin-linked kinase regulates Bergmann glial differentiation during cerebellar development. Molecular and Cellular Neurosciences, 2006, 33, 109-125.	2.2	50
53	Focal adhesion protein Kindlin-2 regulates bone homeostasis in mice. Bone Research, 2020, 8, 2.	11.4	50
54	Kindler Syndrome and Periodontal Disease: Review of the Literature and a 12â€Year Followâ€Up Case. Journal of Periodontology, 2008, 79, 961-966.	3.4	48

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55	Tyrosine Phosphorylation of Integrin Î²3 Regulates Kindlin-2 Binding and Integrin Activation. Journal of Biological Chemistry, 2010, 285, 30370-30374.	3.4	46
56	Assembly and Signaling of Adhesion Complexes. Current Topics in Developmental Biology, 2005, 68, 183-225.	2.2	45
57	Focal Adhesion. Cell Adhesion and Migration, 2007, 1, 13-18.	2.7	45
58	PINCH-1 regulates mitochondrial dynamics to promote proline synthesis and tumor growth. Nature Communications, 2020, 11, 4913.	12.8	44
59	Physical and functional association of migfilin with cell-cell adhesions. Journal of Cell Science, 2005, 118, 697-710.	2.0	42
60	A Suppressive Role of Mitogen Inducible Gene-2 in Mesenchymal Cancer Cell Invasion. Molecular Cancer Research, 2008, 6, 715-724.	3.4	41
61	Identification and kinetic analysis of the interaction between Nck-2 and DOCK180. FEBS Letters, 2001, 491, 193-199.	2.8	39
62	Kindlin-2 Association with Rho GDP-Dissociation Inhibitor Î± Suppresses Rac1 Activation and Podocyte Injury. Journal of the American Society of Nephrology: JASN, 2017, 28, 3545-3562.	6.1	38
63	Kindlin-2 modulates MafA and Î²-catenin expression to regulate Î²-cell function and mass in mice. Nature Communications, 2020, 11, 484.	12.8	38
64	ILK interactions. Journal of Cell Science, 2001, 114, 2549-2550.	2.0	37
65	Expression of integrin-linked kinase and its binding partners in chondrosarcoma: Association with prognostic significance. European Journal of Cancer, 2008, 44, 2518-2525.	2.8	36
66	Integrin-linked kinase is involved in matrix-induced hepatocyte differentiation. Biochemical and Biophysical Research Communications, 2007, 353, 638-643.	2.1	35
67	Nck-2 interacts with focal adhesion kinase and modulates cell motility. International Journal of Biochemistry and Cell Biology, 2002, 34, 791-805.	2.8	34
68	TGF-Î²1 Regulates the PINCH-1â€“Integrin-Linked Kinaseâ€“Î±-Parvin Complex in Glomerular Cells. Journal of the American Society of Nephrology: JASN, 2007, 18, 66-73.	6.1	34
69	Migfilin Interacts with Src and Contributes to Cell-Matrix Adhesion-mediated Survival Signaling. Journal of Biological Chemistry, 2009, 284, 34308-34320.	3.4	33
70	Role of PINCH and Its Partner Tumor Suppressor Rsu-1 in Regulating Liver Size and Tumorigenesis. PLoS ONE, 2013, 8, e74625.	2.5	33
71	Kindlin-2 Tyrosine Phosphorylation and Interaction with Src Serve as a Regulatable Switch in the Integrin Outside-in Signaling Circuit. Journal of Biological Chemistry, 2014, 289, 31001-31013.	3.4	33
72	Structural Basis of Focal Adhesion Localization of LIM-only Adaptor PINCH by Integrin-linked Kinase. Journal of Biological Chemistry, 2009, 284, 5836-5844.	3.4	32

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73	Impaired Bone Homeostasis in Amyotrophic Lateral Sclerosis Mice with Muscle Atrophy. Journal of Biological Chemistry, 2015, 290, 8081-8094.	3.4	32
74	Cancer Stem Cells Protect Nonâ€Stem Cells From Anoikis: Bystander Effects. Journal of Cellular Biochemistry, 2016, 117, 2289-2301.	2.6	32
75	Expression of the Integrin-Linked Kinase (ILK) in Mouse Skin. American Journal of Pathology, 1998, 153, 367-372.	3.8	30
76	Migfilin Protein Promotes Migration and Invasion in Human Glioma through Epidermal Growth Factor Receptor-mediated Phospholipase C-Î³ and STAT3 Protein Signaling Pathways. Journal of Biological Chemistry, 2012, 287, 32394-32405.	3.4	30
77	Focal adhesion proteins Pinch1 and Pinch2 regulate bone homeostasis in mice. JCI Insight, 2019, 4, .	5.0	28
78	Migfilin Regulates Esophageal Cancer Cell Motility through Promoting GSK-3Î²â€“Mediated Degradation of Î²-Catenin. Molecular Cancer Research, 2012, 10, 273-281.	3.4	27
79	Phosphatidylinositol 3-Kinase/Akt Mediates Integrin Signaling To Control RNA Polymerase I Transcriptional Activity. Molecular and Cellular Biology, 2016, 36, 1555-1568.	2.3	27
80	Kindlin-2 interacts with Î²-catenin and YB-1 to enhanceEGFRtranscription during glioma progression. Oncotarget, 2016, 7, 74872-74885.	1.8	27
81	Identification and characterization of a mouse protein kinase that is highly homologous to human integrin-linked kinase1The sequence data have been deposited with the GenBank (accession number) Tj ETQq1 1 0.784314 rgBT /Ove	4.3	26
82	Interaction of Integrin-Linked Kinase and Miniature Chromosome Maintenance 7â€“Mediating Integrin Î±7 Induced Cell Growth Suppression. Cancer Research, 2010, 70, 4375-4384.	0.9	26
83	HDAC10 promotes angiogenesis in endothelial cells through the PTPN22/ERK axis. Oncotarget, 2017, 8, 61338-61349.	1.8	26
84	Î±-Actinin-4 and CLP36 Protein Deficiencies Contribute to Podocyte Defects in Multiple Human Glomerulopathies. Journal of Biological Chemistry, 2011, 286, 30795-30805.	3.4	21
85	PINCH1 Is Transcriptional Regulator in Podocytes That Interacts with WT1 and Represses Podocalyxin Expression. PLoS ONE, 2011, 6, e17048.	2.5	20
86	Heterozygote of TAP1 Codon637 decreases susceptibility to HPV infection but increases susceptibility to esophageal cancer among the Kazakh populations. Journal of Experimental and Clinical Cancer Research, 2015, 34, 70.	8.6	19
87	TSA restores hair follicle-inductive capacity of skin-derived precursors. Scientific Reports, 2019, 9, 2867.	3.3	18
88	Src homology 3 domain-dependent interaction of Nck-2 with insulin receptor substrate-1. Biochemical Journal, 2001, 354, 315-322.	3.7	17
89	Extracellular matrix stiffness regulates mitochondrial dynamics through PINCH-1- and kindlin-2-mediated signalling. Current Research in Cell Biology, 2021, 2, 100008.	2.4	17
90	Src homology 3 domain-dependent interaction of Nck-2 with insulin receptor substrate-1. Biochemical Journal, 2001, 354, 315.	3.7	16

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91	PINCH-1 interacts with myoferlin to promote breast cancer progression and metastasis. Oncogene, 2020, 39, 2069-2087.	5.9	16
92	Î±-Parvin promotes breast cancer progression and metastasis through interaction with G3BP2 and regulation of TWIST1 signaling. Oncogene, 2019, 38, 4856-4874.	5.9	12
93	Beta1-integrin signaling is essential for lens fiber survival. Gene Regulation and Systems Biology, 2007, 1, 177-89.	2.3	12
94	Roles of PINCH-2 in regulation of glomerular cell shape change and fibronectin matrix deposition. American Journal of Physiology - Renal Physiology, 2008, 295, F253-F263.	2.7	11
95	A PINCH-1â€“Smurf1 signaling axis mediates mechano-regulation of BMPR2 and stem cell differentiation. Journal of Cell Biology, 2019, 218, 3773-3794.	5.2	11
96	Migfilin promotes migration and invasion in glioma by driving EGFR and MMP-2 signalings: A positive feedback loop regulation. Journal of Genetics and Genomics, 2017, 44, 557-565.	3.9	10
97	Complex structures of Rsu1 and PINCH1 reveal a regulatory mechanism of the ILK/PINCH/Parvin complex for F-actin dynamics. ELife, 2021, 10, .	6.0	9
98	TGF-Î²1-induced PINCH-1-ILK-Î±-parvin complex formation regulates mesangial cell proliferation and hypertrophy. Experimental and Molecular Medicine, 2007, 39, 514-523.	7.7	8
99	A mechanoresponsive PINCH-1-Notch2 interaction regulates smooth muscle differentiation of human placental mesenchymal stem cells. Stem Cells, 2021, 39, 650-668.	3.2	8
100	Kindlin-2 Acts as a Key Mediator of Lung Fibroblast Activation and Pulmonary Fibrosis Progression. American Journal of Respiratory Cell and Molecular Biology, 2021, 65, 54-69.	2.9	8
101	Migfilinâ€™s elimination from osteoarthritic chondrocytes further promotes the osteoarthritic phenotype via Î²-catenin upregulation. Biochemical and Biophysical Research Communications, 2013, 430, 494-499.	2.1	7
102	Migfilin, Î±-parvin and Î²-parvin are differentially expressed in ovarian serous carcinoma effusions, primary tumors and solid metastases. Gynecologic Oncology, 2013, 128, 364-370.	1.4	7
103	Mechano-regulation of proline metabolism and cancer progression by kindlin-2. Molecular and Cellular Oncology, 2019, 6, 1596003.	0.7	7
104	Protection against Fas-induced fulminant hepatic failure in liver specific integrin linked kinase knockout mice. Comparative Hepatology, 2011, 10, 11.	0.9	4
105	RSU-1 interaction with prohibitin-2 links cellâ€“extracellular matrix detachment to downregulation of ERK signaling. Journal of Biological Chemistry, 2021, 296, 100109.	3.4	4
106	How signaling pathways link extracellular mechanoâ€environment to proline biosynthesis: A hypothesis. BioEssays, 2021, 43, 2100116.	2.5	4
107	PINCH-1 promotes IGF-1 receptor expression and skin cancer progression through inhibition of the GRB10-NEDD4 complex. Theranostics, 2022, 12, 2613-2630.	10.0	4
108	Kindlin-2 promotes rear focal adhesion disassembly and directional persistence in cell migration. Journal of Cell Science, 2020, 134, .	2.0	3

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109	Kindlin-2 promotes Src-mediated tyrosine phosphorylation of androgen receptor and contributes to breast cancer progression. Cell Death and Disease, 2022, 13, .	6.3	3
110	PINCH-1 promotes Î”1-pyrroline-5-carboxylate synthase expression and contributes to proline metabolic reprogramming in lung adenocarcinoma. Amino Acids, 2021, 53, 1875-1890.	2.7	2
111	Mitochondrial dynamics links PINCH-1 signaling to proline metabolic reprogramming and tumor growth. Cell Stress, 2020, 5, 23-25.	3.2	2
112	Integrin Mediated Fibronectin Matrix Assembly.. Trends in Glycoscience and Glycotechnology, 1996, 8, 315-325.	0.1	2
113	Î²1-Integrin Signaling is Essential for Lens Fiber Survival. Gene Regulation and Systems Biology, 2007, 1, 117762500700100.	2.3	1
114	RSU-1 Maintains Integrity of Caenorhabditis elegans Vulval Muscles by Regulating Î±-Actinin. G3: Genes, Genomes, Genetics, 2020, 10, 2507-2517.	1.8	1
115	Migfilin contributes to cellâ€matrix adhesionâ€mediated survival signaling through direct interaction with Src. FASEB Journal, 2010, 24, 39.2.	0.5	0