Hong-Jian Zhu

List of Publications by Year
in descending order

79 papers	6,981 citations	76294 40 h-index	64755 79 g-index
79 all docs	79 docs citations	79 times ranked	11254 citing authors

#	Article	IF	Citations
1	Crystal Structure of a Truncated Epidermal Growth Factor Receptor Extracellular Domain Bound to Transforming Growth Factor Î±. Cell, 2002, 110, 763-773.	13.5	686
2	Extracellular vesicle isolation and characterization: toward clinical application. Journal of Clinical Investigation, 2016, 126, 1152-1162.	3.9	667
3	Inhibition of Renal Fibrosis by Gene Transfer of Inducible Smad7 Using Ultrasound-Microbubble System in Rat UUO Model. Journal of the American Society of Nephrology: JASN, 2003, 14, 1535-1548.	3.0	334
4	Proteome profiling of exosomes derived from human primary and metastatic colorectal cancer cells reveal differential expression of key metastatic factors and signal transduction components. Proteomics, 2013, 13, 1672-1686.	1.3	296
5	Hyperactivation of Stat3 in gp130 mutant mice promotes gastric hyperproliferation and desensitizes TGF-Î² signaling. Nature Medicine, 2005, 11, 845-852.	15.2	284
6	<i>SMAD2</i>, <i>SMAD3</i> and <i>SMAD4</i> Mutations in Colorectal Cancer. Cancer Research, 2013, 73, 725-735.	0.4	260
7	Advanced glycation end products activate Smad signaling via TGFâ€Î²â€dependent and â€independent mechanisms: implications for diabetic renal and vascular disease. FASEB Journal, 2004, 18, 176-178.	0.2	241
8	Smad7 Inhibits Fibrotic Effect of TGF-Î² on Renal Tubular Epithelial Cells by Blocking Smad2 Activation. Journal of the American Society of Nephrology: JASN, 2002, 13, 1464-1472.	3.0	231
9	Heart and Liver Defects and Reduced Transforming Growth Factor Î²2 Sensitivity in Transforming Growth Factor Î² Type III Receptor-Deficient Embryos. Molecular and Cellular Biology, 2003, 23, 4371-4385.	1.1	230
10	Emerging roles of exosomes during epithelialâ€“mesenchymal transition and cancer progression. Seminars in Cell and Developmental Biology, 2015, 40, 60-71.	2.3	190
11	Isolation and Characterization of Tumor Cells from the Ascites of Ovarian Cancer Patients: Molecular Phenotype of Chemoresistant Ovarian Tumors. PLoS ONE, 2012, 7, e46858.	1.1	188
12	Short-term single treatment of chemotherapy results in the enrichment of ovarian cancer stem cell-like cells leading to an increased tumor burden. Molecular Cancer, 2013, 12, 24.	7.9	179
13	Oncogenic H-Ras Reprograms Madin-Darby Canine Kidney (MDCK) Cell-derived Exosomal Proteins Following Epithelial-Mesenchymal Transition. Molecular and Cellular Proteomics, 2013, 12, 2148-2159.	2.5	167
14	Nuclear receptor NR4A1 promotes breast cancer invasion and metastasis by activating TGF-Î² signalling. Nature Communications, 2014, 5, 3388.	5.8	156
15	TGF-Î² induces proangiogenic and antiangiogenic factorsvia parallel but distinct Smad pathways1. Kidney International, 2004, 66, 605-613.	2.6	140
16	Role of TGF-Î² signaling in extracellular matrix production under high glucose conditions. Kidney International, 2003, 63, 2010-2019.	2.6	138
17	Genetic partitioning of interleukinâ€6 signalling in mice dissociates Stat3 from Smad3â€mediated lung fibrosis. EMBO Molecular Medicine, 2012, 4, 939-951.	3.3	128
18	On-Target Anti-TGF-Î² Therapies Are Not Succeeding in Clinical Cancer Treatments: What Are Remaining Challenges?. Frontiers in Cell and Developmental Biology, 2020, 8, 605.	1.8	127

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19	Cancer associated-fibroblast-derived exosomes in cancer progression. Molecular Cancer, 2021, 20, 154.	7.9	116
20	The emergent role of exosomes in glioma. Journal of Clinical Neuroscience, 2017, 35, 13-23.	0.8	115
21	Inhibition of the JAK2/STAT3 pathway in ovarian cancer results in the loss of cancer stem cell-like characteristics and a reduced tumor burden. BMC Cancer, 2014, 14, 317.	1.1	105
22	Deubiquitinase Activity Profiling Identifies UCHL1 as a Candidate Oncoprotein That Promotes TGFÎ²-Induced Breast Cancer Metastasis. Clinical Cancer Research, 2020, 26, 1460-1473.	3.2	92
23	Regulation and Function of Protein Kinases and Phosphatases. Enzyme Research, 2011, 2011, 1-3.	1.8	89
24	Regulation of Transforming Growth Factor-Î² Signaling. Molecular Cell Biology Research Communications: MCBRC: Part B of Biochemical and Biophysical Research Communications, 2001, 4, 321-330.	1.7	88
25	Smad7 Differentially Regulates Transforming Growth Factor Î²-mediated Signaling Pathways. Journal of Biological Chemistry, 1999, 274, 32258-32264.	1.6	83
26	Extracellular vesicles: their role in cancer biology and epithelialâ€“mesenchymal transition. Biochemical Journal, 2017, 474, 21-45.	1.7	81
27	The tumor-specific de2â€“7 epidermal growth factor receptor (EGFR) promotes cells survival and heterodimerizes with the wild-type EGFR. Oncogene, 2004, 23, 6095-6104.	2.6	80
28	TCPTP Regulates SFK and STAT3 Signaling and Is Lost in Triple-Negative Breast Cancers. Molecular and Cellular Biology, 2013, 33, 557-570.	1.1	80
29	CR1/CR2 Interactions Modulate the Functions of the Cell Surface Epidermal Growth Factor Receptor. Journal of Biological Chemistry, 2004, 279, 22387-22398.	1.6	75
30	Targeting Stat3 and Smad7 to restore TGF-Î² cytostatic regulation of tumor cells in vitro and in vivo. Oncogene, 2013, 32, 2433-2441.	2.6	72
31	Secretome-Based Proteomic Profiling of Ras-Transformed MDCK Cells Reveals Extracellular Modulators of Epithelial-Mesenchymal Transition. Journal of Proteome Research, 2009, 8, 2827-2837.	1.8	66
32	YBX1/YB-1 induces partial EMT and tumourigenicity through secretion of angiogenic factors into the extracellular microenvironment. Oncotarget, 2015, 6, 13718-13730.	0.8	66
33	Difference gel electrophoresis analysis of Rasâ€transformed fibroblast cellâ€derived exosomes. Electrophoresis, 2008, 29, 2660-2671.	1.3	62
34	The immune suppressive function of transforming growth factor-Î²(TGF-Î²) in human diseases. Growth Factors, 2015, 33, 92-101.	0.5	61
35	Role of ERK1/2 and p38 Mitogen-Activated Protein Kinases in the Regulation of Thrombospondin-1 by TGF-Î²1 in Rat Proximal Tubular Cells and Mouse Fibroblasts. Journal of the American Society of Nephrology: JASN, 2005, 16, 899-904.	3.0	60
36	Oncogenic epithelial cell-derived exosomes containing Rac1 and PAK2 induce angiogenesis in recipient endothelial cells. Oncotarget, 2016, 7, 19709-19722.	0.8	56

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37	Extracellular Remodelling During Oncogenic Ras-Induced Epithelial-Mesenchymal Transition Facilitates MDCK Cell Migration. Journal of Proteome Research, 2010, 9, 1007-1019.	1.8	54
38	A Novel Non-catalytic Mechanism Employed by the C-terminal Src-homologous Kinase to Inhibit Src-family Kinase Activity. Journal of Biological Chemistry, 2004, 279, 20752-20766.	1.6	52
39	Proteomics Profiling of Madin-Darby Canine Kidney Plasma Membranes Reveals Wnt-5a Involvement during Oncogenic H-Ras/TGF-Î²-mediated Epithelial-Mesenchymal Transition. Molecular and Cellular Proteomics, 2011, 10, S1-S15.	2.5	47
40	Platelet-derived Growth Factor Requires Epidermal Growth Factor Receptor to Activate p21-activated Kinase Family Kinases. Journal of Biological Chemistry, 2001, 276, 26741-26744.	1.6	45
41	Epidermal Growth Factor Receptor: Association of Extracellular Domain Negatively Regulates Intracellular Kinase Activation in the Absence of Ligand. Growth Factors, 2003, 21, 15-30.	0.5	41
42	A Pivotal Role for the Transmembrane Domain in Transforming Growth Factor-Î² Receptor Activation. Journal of Biological Chemistry, 1999, 274, 11773-11781.	1.6	38
43	Transforming growth factor-beta (TGF-Î²) and brain tumours. Journal of Clinical Neuroscience, 2008, 15, 845-855.	0.8	36
44	Signal therapy of human pancreatic cancer and NF1-deficient breast cancer xenograft in mice by a combination of PP1 and GL-2003, anti-PAK1 drugs (Tyr-kinase inhibitors). Cancer Letters, 2007, 245, 242-251.	3.2	35
45	SPSB1, a Novel Negative Regulator of the Transforming Growth Factor-Î² Signaling Pathway Targeting the Type II Receptor. Journal of Biological Chemistry, 2015, 290, 17894-17908.	1.6	32
46	PTEN catalysis of phospholipid dephosphorylation reaction follows a two-step mechanism in which the conserved aspartate-92 does not function as the general acid â€" Mechanistic analysis of a familial Cowden disease-associated PTEN mutation. Cellular Signalling, 2007, 19, 1434-1445.	1.7	30
47	Lactacystin-induced apoptosis of cultured mouse cortical neurons is associated with accumulation of PTEN in the detergent-resistant membrane fraction. Cellular and Molecular Life Sciences, 2004, 61, 1926-1934.	2.4	29
48	Anti-EGFR therapeutic efficacy correlates directly with inhibition of STAT3 activity. Cancer Biology and Therapy, 2014, 15, 623-632.	1.5	27
49	Transformed MDCK cells secrete elevated MMP1 that generates LAMA5 fragments promoting endothelial cell angiogenesis. Scientific Reports, 2016, 6, 28321.	1.6	26
50	Cell division autoantigen 1 enhances signaling and the profibrotic effects of transforming growth factor-Î² in diabetic nephropathy. Kidney International, 2011, 79, 199-209.	2.6	25
51	Petchiether A attenuates obstructive nephropathy by suppressing TGFâ€Î²/Smad3 and NFâ€ÎºB signalling. Journal of Cellular and Molecular Medicine, 2019, 23, 5576-5587.	1.6	25
52	Retrograde, Antegrade, and Laparoscopic Approaches to the Management of Large Upper Ureteral Stones After Shockwave Lithotripsy Failure: A Four-Year Retrospective Study. Journal of Endourology, 2014, 28, 100-103.	1.1	24
53	Extracellular Domain of the Transforming Growth Factor-Î² Receptor Negatively Regulates Ligand-independent Receptor Activation. Journal of Biological Chemistry, 1999, 274, 29220-29227.	1.6	23
54	Analysis of Ras-induced oncogenic transformation of NIH-3T3 cells using differential-display 2-DE proteomics. Electrophoresis, 2007, 28, 1997-2008.	1.3	22

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55	Unique biochemical properties of the protein tyrosine phosphatase activity of PTENâ€"Demonstration of different active site structural requirements for phosphopeptide and phospholipid phosphatase activities of PTEN. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 1785-1795.	1.1	20
56	Betaglycan blocks metastatic behaviors in human granulosa cell tumors by suppressing NFÎºB-mediated induction of MMP2. Cancer Letters, 2014, 354, 107-114.	3.2	20
57	Laparoscopic Pyeloplasty: A Comparison between the Transperitoneal and Retroperitoneal Approach during the Learning Curve. Urologia Internationalis, 2013, 90, 130-135.	0.6	18
58	Single live cell TGF-Î² signalling imaging: breast cancer cell motility and migration is driven by sub-populations of cells with dynamic TGF-Î²-Smad3 activity. Molecular Cancer, 2015, 14, 50.	7.9	18
59	Mathematical model of TGF-Î²signalling: feedback coupling is consistent with signal switching. BMC Systems Biology, 2017, 11, 48.	3.0	18
60	Perturbation of the CD4 T Cell Compartment and Expansion of Regulatory T Cells in Autoimmune-Prone Lyn-Deficient Mice. Journal of Immunology, 2009, 183, 2484-2494.	0.4	17
61	Reactivation of BMP signaling by suboptimal concentrations of MEK inhibitor and FK506 reduces organ-specific breast cancer metastasis. Cancer Letters, 2020, 493, 41-54.	3.2	17
62	Defining the Substrate Specificity Determinants Recognized by the Active Site of C-Terminal Src Kinase-Homologous Kinase (CHK) and Identification of Î²-Synuclein as a Potential CHK Physiological Substrate. Biochemistry, 2011, 50, 6667-6677.	1.2	16
63	New reagents for improved<i>in vitro</i>and<i>in vivo</i>examination of TGF-Î² signalling. Growth Factors, 2011, 29, 211-218.	0.5	15
64	Ponatinib Inhibits Multiple Signaling Pathways Involved in STAT3 Signaling and Attenuates Colorectal Tumor Growth. Cancers, 2018, 10, 526.	1.7	15
65	Ras enhances TGF-Î² signaling by decreasing cellular protein levels of its type II receptor negative regulator SPSB1. Cell Communication and Signaling, 2018, 16, 10.	2.7	14
66	CSK-homologous kinase (CHK/MATK) is a potential colorectal cancer tumour suppressor gene epigenetically silenced by promoter methylation. Oncogene, 2021, 40, 3015-3029.	2.6	13
67	Tandem application of cationic colloidal silica and Triton Xâ€•114 for plasma membrane protein isolation and purification: Towards developing an MDCK protein database. Proteomics, 2011, 11, 1238-1253.	1.3	12
68	Csk-homologous kinase (Chk) is an efficient inhibitor of Src-family kinases but a poor catalyst of phosphorylation of their C-terminal regulatory tyrosine. Cell Communication and Signaling, 2017, 15, 29.	2.7	10
69	Dynamin II function is required for EGF-mediated Stat3 activation but not Erk1/2 phosphorylation. Growth Factors, 2012, 30, 220-229.	0.5	9
70	The C-terminal tail inhibitory phosphorylation sites of PTEN regulate its intrinsic catalytic activity and the kinetics of its binding to phosphatidylinositol-4,5-bisphosphate. Archives of Biochemistry and Biophysics, 2015, 587, 48-60.	1.4	8
71	TGF-Î² and IL-6 family signalling crosstalk: an integrated model. Growth Factors, 2017, 35, 100-124.	0.5	7
72	Therapeutic Reversal of Radiotherapy Injury to Pro-fibrotic Dysfunctional Fibroblasts In Vitro Using Adipose-derived Stem Cells. Plastic and Reconstructive Surgery - Global Open, 2020, 8, e2706.	0.3	6

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73	Live Cell Imaging of the TGF- β/Smad3 Signaling Pathway In Vitro and In Vivo Using an Adenovirus Reporter System. Journal of Visualized Experiments, 2018, , .	0.2	5
74	Transglutaminaseâ€2, RNAâ€binding proteins and mitochondrial proteins selectively traffic to MDCK cellâ€derived microvesicles following Hâ€Rasâ€induced epithelialâ€“mesenchymal transition. Proteomics, 2021, 21, 2000221.	1.3	5
75	Expression, generation, and purification of unphosphorylated and phospho-Ser-380/Thr-382/Thr-383 form of recombinant PTEN phosphatase. Protein Expression and Purification, 2007, 55, 334-342.	0.6	4
76	Ureteroscopic treatment of urological calculi under sacral block anesthesia. Urological Research, 2012, 40, 361-363.	1.5	4
77	USP26 regulates TGFâ€Î² signalling by deubiquitinating and stabilizing SMAD7; not applicable in glioblastoma. EMBO Reports, 2020, 21, e47030.	2.0	4
78	Fast Quantitation of TGF-Î² Signaling Using Adenoviral Reporter. Methods in Molecular Biology, 2022, 2488, 13-22.	0.4	4
79	Tumor-associated EGFR over-expression specifically activates Stat3 and Smad7 resulting in desensitization of TGF-Î² signaling. Nature Precedings, 2008, , .	0.1	2