Margaret C Frame

List of Publications by Year in descending order

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132 papers

12,982 citations

24978 57 h-index 24179 110 g-index

144 all docs

144 docs citations

times ranked

144

17975 citing authors

#	Article	IF	CITATIONS
1	The role of focal-adhesion kinase in cancer $\hat{a}\in "$ a new therapeutic opportunity. Nature Reviews Cancer, 2005, 5, 505-515.	12.8	932
2	Mutant p53 drives metastasis and overcomes growth arrest/senescence in pancreatic cancer. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 246-251.	3.3	530
3	E-cadherin–integrin crosstalk in cancer invasion and metastasis. Journal of Cell Science, 2013, 126, 393-401.	1.2	525
4	Visceral and subcutaneous fat have different origins and evidence supports a mesothelial source. Nature Cell Biology, 2014, 16, 367-375.	4.6	422
5	Src in cancer: deregulation and consequences for cell behaviour. Biochimica Et Biophysica Acta: Reviews on Cancer, 2002, 1602, 114-130.	3.3	388
6	Src-induced de-regulation of E-cadherin in colon cancer cells requires integrin signalling. Nature Cell Biology, 2002, 4, 632-638.	4.6	345
7	Newest findings on the oldest oncogene; how activated src does it. Journal of Cell Science, 2004, 117, 989-998.	1.2	335
8	The calpain system and cancer. Nature Reviews Cancer, 2011, 11, 364-374.	12.8	333
9	Focal adhesion and actin dynamics: a place where kinases and proteases meet to promote invasion. Trends in Cell Biology, 2004, 14, 241-249.	3.6	330
10	The FERM domain: organizing the structure and function of FAK. Nature Reviews Molecular Cell Biology, 2010, 11, 802-814.	16.1	314
11	Nuclear FAK Controls Chemokine Transcription, Tregs, and Evasion of Anti-tumor Immunity. Cell, 2015, 163, 160-173.	13.5	304
12	v-SRC'S hold over actin and cell adhesions. Nature Reviews Molecular Cell Biology, 2002, 3, 233-245.	16.1	286
13	Src and FAK signalling controls adhesion fate and the epithelial-to-mesenchymal transition. Current Opinion in Cell Biology, 2005, 17, 542-547.	2.6	253
14	RhoB and Actin Polymerization Coordinate Src Activation with Endosome-Mediated Delivery to the Membrane. Developmental Cell, 2004, 7, 855-869.	3.1	235
15	Focal adhesion kinase controls actin assembly via a FERM-mediated interaction with the Arp2/3 complex. Nature Cell Biology, 2007, 9, 1046-1056.	4.6	229
16	A Complex between FAK, RACK1, and PDE4D5 Controls Spreading Initiation and Cancer Cell Polarity. Current Biology, 2010, 20, 1086-1092.	1.8	214
17	Increased dosage and amplification of the focal adhesion kinase gene in human cancer cells. Oncogene, 1999, 18, 5646-5653.	2.6	213
18	Specific deletion of focal adhesion kinase suppresses tumor formation and blocks malignant progression. Genes and Development, 2004, 18, 2998-3003.	2.7	192

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19	Identification of Src-Specific Phosphorylation Site on Focal Adhesion Kinase: Dissection of the Role of Src SH2 and Catalytic Functions and Their Consequences for Tumor Cell Behavior. Cancer Research, 2005, 65, 1335-1342.	0.4	191
20	Paradox-Breaking RAF Inhibitors that Also Target SRC Are Effective in Drug-Resistant BRAF Mutant Melanoma. Cancer Cell, 2015, 27, 85-96.	7.7	188
21	Mammary epithelial-specific disruption of the focal adhesion kinase blocks mammary tumor progression. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20302-20307.	3.3	184
22	A Novel Role for FAK as a Protease-Targeting Adaptor Protein. Current Biology, 2003, 13, 1442-1450.	1.8	177
23	Focal Adhesion Kinase Is Required for Intestinal Regeneration and Tumorigenesis Downstream of Wnt/c-Myc Signaling. Developmental Cell, 2010, 19, 259-269.	3.1	176
24	Coordination of cell polarization and migration by the Rho family GTPases requires Src tyrosine kinase activity. Current Biology, 2001, 11, 1836-1846.	1.8	175
25	Cellular functions of the ADF/cofilin family at a glance. Journal of Cell Science, 2016, 129, 3211-8.	1.2	174
26	Autophagic targeting of Src promotes cancer cell survival following reduced FAK signalling. Nature Cell Biology, 2012, 14, 51-60.	4.6	171
27	Glioblastomas acquire myeloid-affiliated transcriptional programs via epigenetic immunoediting to elicit immune evasion. Cell, 2021, 184, 2454-2470.e26.	13.5	165
28	Src and focal adhesion kinase as therapeutic targets in cancer. Current Opinion in Pharmacology, 2008, 8, 427-432.	1.7	161
29	Targeting FAK in anticancer combination therapies. Nature Reviews Cancer, 2021, 21, 313-324.	12.8	154
30	Realizing the Promise of Reverse Phase Protein Arrays for Clinical, Translational, and Basic Research: A Workshop Report. Molecular and Cellular Proteomics, 2014, 13, 1625-1643.	2.5	152
31	The Catalytic Activity of the Src Family Kinases Is Required to Disrupt Cadherin-dependent Cell–Cell Contacts. Molecular Biology of the Cell, 2000, 11, 51-64.	0.9	147
32	LKB1 Haploinsufficiency Cooperates With Kras to Promote Pancreatic Cancer Through Suppression of p21-Dependent Growth Arrest. Gastroenterology, 2010, 139, 586-597.e6.	0.6	130
33	Spatial Regulation of RhoA Activity during Pancreatic Cancer Cell Invasion Driven by Mutant p53. Cancer Research, 2011, 71, 747-757.	0.4	127
34	Cleavage of Focal Adhesion Kinase by Different Proteases during Src-regulated Transformation and Apoptosis. Journal of Biological Chemistry, 2001, 276, 4270-4275.	1.6	125
35	Critical role for lipid raft-associated Src kinases in activation of PI3K-Akt signalling. Cellular Signalling, 2007, 19, 1081-1092.	1.7	124
36	Dasatinib Inhibits the Development of Metastases in a Mouse Model of Pancreatic Ductal Adenocarcinoma. Gastroenterology, 2010, 139, 292-303.	0.6	123

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37	Quantitative <i>In vivo</i> Imaging of the Effects of Inhibiting Integrin Signaling via Src and FAK on Cancer Cell Movement: Effects on E-cadherin Dynamics. Cancer Research, 2010, 70, 9413-9422.	0.4	122
38	Src SH3/2 Domain-mediated Peripheral Accumulation of Src and Phospho-myosin Is Linked to Deregulation of E-cadherin and the Epithelial-Mesenchymal Transition. Molecular Biology of the Cell, 2004, 15, 2794-2803.	0.9	111
39	Intravital FLIM-FRET Imaging Reveals Dasatinib-Induced Spatial Control of Src in Pancreatic Cancer. Cancer Research, 2013, 73, 4674-4686.	0.4	111
40	Identification of potential biomarkers for measuring inhibition of Src kinase activity in colon cancer cells following treatment with dasatinib. Molecular Cancer Therapeutics, 2006, 5, 3014-3022.	1.9	110
41	Endosomal trafficking of Src tyrosine kinase. Trends in Cell Biology, 2008, 18, 322-329.	3.6	103
42	The SH3 Domain Directs Acto-Myosin-Dependent Targeting of v-Src to Focal Adhesions via Phosphatidylinositol 3-Kinase. Molecular and Cellular Biology, 2000, 20, 6518-6536.	1.1	97
43	Targeting DNA Damage Response and Replication Stress in Pancreatic Cancer. Gastroenterology, 2021, 160, 362-377.e13.	0.6	90
44	FGF/Heparin Differentially Regulates Schwann Cell and Olfactory Ensheathing Cell Interactions with Astrocytes: A Role in Astrocytosis. Journal of Neuroscience, 2007, 27, 7154-7167.	1.7	89
45	Src kinase modulates the activation, transport and signalling dynamics of fibroblast growth factor receptors. EMBO Reports, 2007, 8, 1162-1169.	2.0	89
46	The IpaC Carboxyterminal Effector Domain Mediates Src-Dependent Actin Polymerization during Shigella Invasion of Epithelial Cells. PLoS Pathogens, 2009, 5, e1000271.	2.1	89
47	The membrane targeting and spatial activation of Src, Yes and Fyn is influenced by palmitoylation and distinct RhoB/RhoD endosome requirements. Journal of Cell Science, 2007, 120, 2555-2564.	1.2	88
48	Epigenetic downregulation of human disabled homolog 2 switches TGF- \hat{l}^2 from a tumor suppressor to a tumor promoter. Journal of Clinical Investigation, 2010, 120, 2842-2857.	3.9	87
49	N-cadherin differentially determines Schwann cell and olfactory ensheathing cell adhesion and migration responses upon contact with astrocytes. Molecular and Cellular Neurosciences, 2005, 28, 253-263.	1.0	83
50	Advances in Rho-dependent actin regulation and oncogenic transformation. Current Opinion in Genetics and Development, 2002, 12, 36-43.	1.5	82
51	Visualization of Src Activity at Different Compartments of the Plasma Membrane by FRET Imaging. Chemistry and Biology, 2009, 16, 48-57.	6.2	76
52	Imaging drug uptake by bioorthogonal stimulated Raman scattering microscopy. Chemical Science, 2017, 8, 5606-5615.	3.7	75
53	Src/FAK-mediated regulation of E-cadherin as a mechanism for controlling collective cell movement. Cell Adhesion and Migration, 2011, 5, 360-365.	1.1	72
54	ADF and Cofilin1 Control Actin Stress Fibers, Nuclear Integrity, and Cell Survival. Cell Reports, 2015, 13, 1949-1964.	2.9	70

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55	Chemoresistant KM12C Colon Cancer Cells Are Addicted to Low Cyclic AMP Levels in a Phosphodiesterase 4–Regulated Compartment via Effects on Phosphoinositide 3-Kinase. Cancer Research, 2007, 67, 5248-5257.	0.4	68
56	Real-time Study of E-Cadherin and Membrane Dynamics in Living Animals: Implications for Disease Modeling and Drug Development. Cancer Research, 2009, 69, 2714-2719.	0.4	64
57	Loss of Scar/WAVE Complex Promotes N-WASP- and FAK-Dependent Invasion. Current Biology, 2013, 23, 107-117.	1.8	64
58	IL-33 and ST2 mediate FAK-dependent antitumor immune evasion through transcriptional networks. Science Signaling, 2017, 10, .	1.6	64
59	Live Cell in Vitro and in Vivo Imaging Applications: Accelerating Drug Discovery. Pharmaceutics, 2011, 3, 141-170.	2.0	60
60	c-Src drives intestinal regeneration and transformation. EMBO Journal, 2014, 33, 1474-91.	3.5	56
61	Focal adhesion kinase as a potential target in oncology. Expert Opinion on Pharmacotherapy, 2003, 4, 227-234.	0.9	55
62	A direct interaction between fascin and microtubules contributes to adhesion dynamics and cell migration. Journal of Cell Science, 2015, 128, 4601-14.	1.2	53
63	The role of focal adhesion kinase catalytic activity on the proliferation and migration of squamous cell carcinoma cells. International Journal of Cancer, 2012, 131, 287-297.	2.3	52
64	Rapid Discovery and Structure–Activity Relationships of Pyrazolopyrimidines That Potently Suppress Breast Cancer Cell Growth via SRC Kinase Inhibition with Exceptional Selectivity over ABL Kinase. Journal of Medicinal Chemistry, 2016, 59, 4697-4710.	2.9	52
65	Recruitment of Phosphoinositide 3-Kinase Defines a Positive Contribution of Tyrosine Kinase Signaling to E-cadherin Function. Journal of Biological Chemistry, 2005, 280, 3043-3050.	1.6	51
66	CD24 interacts with and promotes the activity of c-src within lipid rafts in breast cancer cells, thereby increasing integrin-dependent adhesion. Cellular and Molecular Life Sciences, 2012, 69, 435-448.	2.4	50
67	Srcâ€dependent autophagic degradation of Ret in FAKâ€signallingâ€defective cancer cells. EMBO Reports, 2012, 13, 733-740.	2.0	49
68	Nuclear FAK and Runx1 Cooperate to Regulate IGFBP3, Cell-Cycle Progression, and Tumor Growth. Cancer Research, 2017, 77, 5301-5312.	0.4	48
69	The MacBlue Binary Transgene (csf1r-gal4VP16/UAS-ECFP) Provides a Novel Marker for Visualisation of Subsets of Monocytes, Macrophages and Dendritic Cells and Responsiveness to CSF1 Administration. PLoS ONE, 2014, 9, e105429.	1.1	48
70	Structural basis of Focal Adhesion Kinase activation on lipid membranes. EMBO Journal, 2020, 39, e104743.	3.5	47
71	The Src-Induced Mesenchymal State in Late-Stage Colon Cancer Cells. Cells Tissues Organs, 2005, 179, 73-80.	1.3	44
72	Mislocalization of the E3 Ligase, \hat{l}^2 -Transducin Repeat-containing Protein 1 (\hat{l}^2 -TrCP1), in Glioblastoma Uncouples Negative Feedback between the Pleckstrin Homology Domain Leucine-rich Repeat Protein Phosphatase 1 (PHLPP1) and Akt. Journal of Biological Chemistry, 2011, 286, 19777-19788.	1.6	43

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73	Adhesion protein networks reveal functions proximal and distal to cell-matrix contacts. Current Opinion in Cell Biology, 2016, 39, 93-100.	2.6	42
74	AP-1 Differentially Expressed Proteins Krp1 and Fibronectin Cooperatively Enhance Rho-ROCK-Independent Mesenchymal Invasion by Altering the Function, Localization, and Activity of Nondifferentially Expressed Proteins. Molecular and Cellular Biology, 2006, 26, 1480-1495.	1.1	37
75	Two-color Photoactivatable Probe for Selective Tracking of Proteins and Cells. Journal of Biological Chemistry, 2010, 285, 11607-11616.	1.6	37
76	Kindlin-1 regulates mitotic spindle formation by interacting with integrins and Plk-1. Nature Communications, 2013, 4, 2056.	5.8	36
77	Src-dependent phosphorylation of Scar1 promotes its association with the Arp2/3 complex. Cytoskeleton, 2006, 63, 6-13.	4.4	35
78	T-cell co-stimulation in combination with targeting FAK drives enhanced anti-tumor immunity. ELife, 2020, 9 , .	2.8	34
79	In vivo imaging of the tumor and its associated microenvironment using combined CARS / 2-photon microscopy. Intravital, 2015, 4, e1055430.	2.0	33
80	Oncogenic BRAF, unrestrained by $TGF\hat{l}^2$ -receptor signalling, drives right-sided colonic tumorigenesis. Nature Communications, 2021, 12, 3464.	5.8	33
81	Ambra1 spatially regulates Src activity and Src/FAK-mediated cancer cell invasion via trafficking networks. ELife, 2017, 6, .	2.8	32
82	Signaling of the direction-sensing FAK/RACK1/PDE4D5 complex to the small GTPase Rap1. Small GTPases, 2011, 2, 54-61.	0.7	31
83	A novel Src kinase inhibitor reduces tumour formation in a skin carcinogenesis model. Carcinogenesis, 2009, 30, 249-257.	1.3	28
84	Mer-mediated eosinophil efferocytosis regulates resolution of allergic airway inflammation. Journal of Allergy and Clinical Immunology, 2018, 142, 1884-1893.e6.	1.5	28
85	High-Precision Photothermal Ablation Using Biocompatible Palladium Nanoparticles and Laser Scanning Microscopy. ACS Applied Materials & Scanning Microscopy.	4.0	28
86	NCAM Is at the Heart of Reciprocal Regulation of E-Cadherin- and Integrin-Mediated Adhesions via Signaling Modulation. Developmental Cell, 2008, 15, 494-496.	3.1	27
87	Identification of novel pathways linking epithelial-to-mesenchymal transition with resistance to HER2-targeted therapy. Oncotarget, 2016, 7, 11539-11552.	0.8	27
88	FAK Deletion Promotes p53-Mediated Induction of p21, DNA-Damage Responses and Radio-Resistance in Advanced Squamous Cancer Cells. PLoS ONE, 2011, 6, e27806.	1.1	27
89	A fluorogenic probe for granzyme B enables in-biopsy evaluation and screening of response to anticancer immunotherapies. Nature Communications, 2022, 13, 2366.	5.8	26
90	E-Cadherin at the Cell Periphery Is a Determinant of Keratinocyte Differentiation in Vitro. Biochemical and Biophysical Research Communications, 2000, 269, 369-376.	1.0	25

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91	Exposure to the antimicrobial peptide LL-37 produces dendritic cells optimized for immunotherapy. Oncolmmunology, 2019, 8, 1608106.	2.1	25
92	FAK-inhibition opens the door to checkpoint immunotherapy in Pancreatic Cancer., 2017, 5, 17.		24
93	Structure-Based Design, Synthesis, and Characterization of the First Irreversible Inhibitor of Focal Adhesion Kinase. ACS Chemical Biology, 2018, 13, 2067-2073.	1.6	24
94	mDia1 Targets v-Src to the Cell Periphery and Facilitates Cell Transformation, Tumorigenesis, and Invasion. Molecular and Cellular Biology, 2010, 30, 4604-4615.	1.1	23
95	Focal adhesion kinase contributes to proliferative potential of ErbB2 mammary tumour cells but is dispensable for ErbB2 mammary tumour induction in vivo. Breast Cancer Research, 2012, 14, R36.	2.2	23
96	Kindlin1 regulates microtubule function to ensure normal mitosis. Journal of Molecular Cell Biology, 2016, 8, 338-348.	1.5	23
97	The multi-FERM-domain-containing protein FrmA is required for turnover of paxillin-adhesion sites during cell migration of <i>Dictyostelium</i> . Journal of Cell Science, 2008, 121, 1159-1164.	1.2	21
98	Diversity of Matriptase Expression Level and Function in Breast Cancer. PLoS ONE, 2012, 7, e34182.	1.1	21
99	Epidermal Growth Factor Receptor substrate 8 (Eps8) controls Src/FAK-dependent phenotypes in squamous carcinoma cells. Journal of Cell Science, 2014, 127, 5303-16.	1.2	21
100	Focal adhesion kinase is not required for Src-induced formation of invadopodia in KM12C colon cancer cells and can interfere with their assembly. European Journal of Cell Biology, 2008, 87, 569-579.	1.6	20
101	FAK to the Rescue: Activated Stroma Promotes a "Safe Havenâ€for BRAF-Mutant Melanoma Cells by Inducing FAK Signaling. Cancer Cell, 2015, 27, 429-431.	7.7	20
102	p70S6K is regulated by focal adhesion kinase and is required for Src-selective autophagy. Cellular Signalling, 2015, 27, 1816-1823.	1.7	20
103	A Conformation Selective Mode of Inhibiting SRC Improves Drug Efficacy and Tolerability. Cancer Research, 2021, 81, 5438-5450.	0.4	20
104	An active Src kinase- \hat{l}^2 -actin association is linked to actin dynamics at the periphery of colon cancer cells. Experimental Cell Research, 2007, 313, 3175-3188.	1.2	19
105	Use of photoactivation and photobleaching to monitor the dynamic regulation of E-cadherin at the plasma membrane. Cell Adhesion and Migration, 2010, 4, 491-501.	1.1	19
106	FAK and talin: Who is taking whom to the integrin engagement party?. Journal of Cell Biology, 2012, 196, 185-187.	2.3	18
107	Combining imaging and pathway profiling: an alternative approach to cancer drug discovery. Drug Discovery Today, 2012, 17, 203-214.	3.2	18
108	Mutational activation of BRAF confers sensitivity to transforming growth factor beta inhibitors in human cancer cells. Oncotarget, 2016, 7, 81995-82012.	0.8	18

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109	A tal(in) of cell spreading. Nature Cell Biology, 2008, 10, 1017-1019.	4.6	17
110	A Synergistic Anticancer FAK and HDAC Inhibitor Combination Discovered by a Novel Chemical–Genetic High-Content Phenotypic Screen. Molecular Cancer Therapeutics, 2020, 19, 637-649.	1.9	16
111	FAK goes nuclear to control antitumor immunity—a new target in cancer immuno-therapy. Oncolmmunology, 2016, 5, e1119356.	2.1	14
112	FAK regulates IL-33 expression by controlling chromatin accessibility at c-Jun motifs. Scientific Reports, 2021, 11, 229.	1.6	14
113	The autophagy protein Ambra1 regulates gene expression by supporting novel transcriptional complexes. Journal of Biological Chemistry, 2020, 295, 12045-12057.	1.6	13
114	Quantitative real-time imaging of molecular dynamics during cancer cell invasion and metastasis in vivo. Cell Adhesion and Migration, 2009, 3, 351-354.	1.1	12
115	FAK Acts as a Suppressor of RTK-MAP Kinase Signalling in Drosophila melanogaster Epithelia and Human Cancer Cells. PLoS Genetics, 2014, 10, e1004262.	1.5	12
116	Global histone modification fingerprinting in human cells using epigenetic reverse phase protein array. Cell Death Discovery, 2017, 3, 16077.	2.0	12
117	Reverse Phase Protein Arrays and Drug Discovery. Methods in Molecular Biology, 2017, 1647, 153-169.	0.4	12
118	Trafficking of Adhesion and Growth Factor Receptors and Their Effector Kinases. Annual Review of Cell and Developmental Biology, 2018, 34, 29-58.	4.0	11
119	Novel roles of PRK1 and PRK2 in cilia and cancer biology. Scientific Reports, 2020, 10, 3902.	1.6	10
120	Integrative analysis of multi-platform reverse-phase protein array data for the pharmacodynamic assessment of response to targeted therapies. Scientific Reports, 2020, 10, 21985.	1.6	9
121	Rapid Polymer Conjugation Strategies for the Generation of pH-Responsive, Cancer Targeting, Polymeric Nanoparticles. Biomacromolecules, 2018, 19, 2721-2730.	2.6	8
122	Modelling distinct modes of tumour invasion and metastasis. Drug Discovery Today: Disease Models, 2011, 8, 103-112.	1.2	5
123	Translation Microscopy (TRAM) for super-resolution imaging. Scientific Reports, 2016, 6, 19993.	1.6	5
124	Pathway profiling of a novel SRC inhibitor, AZD0424, in combination with MEK inhibitors for cancer treatment. Molecular Oncology, 2022, 16, 1072-1090.	2.1	5
125	V-SRC informs integrin signalling. Nature Reviews Molecular Cell Biology, 2013, 14, 548-548.	16.1	4
126	Development of a fluorescence-based cellular apoptosis reporter. Methods and Applications in Fluorescence, 2019, 7, 015001.	1.1	4

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127	Characterisation of a nucleo-adhesome. Nature Communications, 2022, 13, .	5.8	4
128	ERG activity is regulated by endothelial FAK coupling with TRIM25/USP9x in vascular patterning. Development (Cambridge), 2022, 149, .	1.2	4
129	Multiphoton Microscopy for Visualizing Lipids in Tissue. Methods in Molecular Biology, 2016, 1467, 105-118.	0.4	3
130	Srcâ€dependent autophagic degradation of Ret in FAKâ€signallingâ€defective cancer cells. EMBO Reports, 2012, 13, 867-867.	2.0	1
131	The ROCKs on which tumour cells thrive. ELife, 2016, 5, e14511.	2.8	1
132	Editor's Note: Identification of Src-Specific Phosphorylation Site on Focal Adhesion Kinase: Dissection of the Role of Src SH2 and Catalytic Functions and Their Consequences for Tumor Cell Behavior. Cancer Research, 2022, 82, 2500-2500.	0.4	1