

James K Chen

List of Publications by Year in descending order

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87
papers

12,158
citations

66343

42
h-index

51608

86
g-index

98
all docs

98
docs citations

98
times ranked

13340
citing authors

#	ARTICLE	IF	CITATIONS
1	Inhibition of Hedgehog signaling by direct binding of cyclopamine to Smoothed. Genes and Development, 2002, 16, 2743-2748.	5.9	1,318
2	Effects of oncogenic mutations in Smoothed and Patched can be reversed by cyclopamine. Nature, 2000, 406, 1005-1009.	27.8	1,243
3	Structural basis for the binding of proline-rich peptides to SH3 domains. Cell, 1994, 76, 933-945.	28.9	1,018
4	Small molecule modulation of Smoothed activity. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 14071-14076.	7.1	907
5	Two binding orientations for peptides to the Src SH3 domain: development of a general model for SH3-ligand interactions. Science, 1994, 266, 1241-1247.	12.6	818
6	Medulloblastoma Growth Inhibition by Hedgehog Pathway Blockade. Science, 2002, 297, 1559-1561.	12.6	760
7	Stromal response to Hedgehog signaling restrains pancreatic cancer progression. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E3091-100.	7.1	421
8	Organic wastewater treatment by a single-atom catalyst and electrolytically produced H ₂ O ₂ . Nature Sustainability, 2021, 4, 233-241.	23.7	350
9	Small-molecule inhibitors of the AAA+ ATPase motor cytoplasmic dynein. Nature, 2012, 484, 125-129.	27.8	342
10	Purmorphamine activates the Hedgehog pathway by targeting Smoothed. Nature Chemical Biology, 2006, 2, 29-30.	8.0	330
11	The BAH domain of ORC1 links H4K20me ₂ to DNA replication licensing and Meier's Gorlin syndrome. Nature, 2012, 484, 115-119.	27.8	314
12	Small-molecule inhibitors reveal multiple strategies for Hedgehog pathway blockade. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14132-14137.	7.1	274
13	A small molecule that binds Hedgehog and blocks its signaling in human cells. Nature Chemical Biology, 2009, 5, 154-156.	8.0	273
14	Activity-Dependent Internalization of Smoothed Mediated by β -Arrestin 2 and GRK2. Science, 2004, 306, 2257-2260.	12.6	264
15	A crucial requirement for Hedgehog signaling in small cell lung cancer. Nature Medicine, 2011, 17, 1504-1508.	30.7	224
16	Light-controlled gene silencing in zebrafish embryos. Nature Chemical Biology, 2007, 3, 650-651.	8.0	209
17	An inducible long noncoding RNA amplifies DNA damage signaling. Nature Genetics, 2016, 48, 1370-1376.	21.4	195
18	Centrosome repositioning in T cells is biphasic and driven by microtubule end-on capture-shrinkage. Journal of Cell Biology, 2013, 202, 779-792.	5.2	145

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19	A CRISPR-based screen for Hedgehog signaling provides insights into ciliary function and ciliopathies. <i>Nature Genetics</i> , 2018, 50, 460-471.	21.4	140
20	General Method for Regulating Protein Stability with Light. <i>ACS Chemical Biology</i> , 2014, 9, 111-115.	3.4	127
21	Biased combinatorial libraries: novel ligands for the SH3 domain of phosphatidylinositol 3-kinase. <i>Journal of the American Chemical Society</i> , 1993, 115, 12591-12592.	13.7	126
22	Smoothed Signal Transduction Is Promoted by G Protein-Coupled Receptor Kinase 2. <i>Molecular and Cellular Biology</i> , 2006, 26, 7550-7560.	2.3	114
23	Direct kinetochore–spindle pole connections are not required for chromosome segregation. <i>Journal of Cell Biology</i> , 2014, 206, 231-243.	5.2	109
24	Versatile Synthesis and Rational Design of Caged Morpholinos. <i>Journal of the American Chemical Society</i> , 2009, 131, 13255-13269.	13.7	101
25	Sequential Gene Silencing Using Wavelength-Selective Caged Morpholino Oligonucleotides. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10114-10118.	13.8	97
26	Protein Structure-Based Combinatorial Chemistry: Discovery of Non-Peptide Binding Elements to Src SH3 Domain. <i>Journal of the American Chemical Society</i> , 1996, 118, 287-288.	13.7	94
27	The identification of myriocin-binding proteins. <i>Chemistry and Biology</i> , 1999, 6, 221-235.	6.0	88
28	Diacylglycerol promotes centrosome polarization in T cells via reciprocal localization of dynein and myosin II. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 11976-11981.	7.1	86
29	Illuminating developmental biology through photochemistry. <i>Nature Chemical Biology</i> , 2017, 13, 587-598.	8.0	75
30	Neuropilins are positive regulators of Hedgehog signal transduction. <i>Genes and Development</i> , 2011, 25, 2333-2346.	5.9	73
31	Control of inflammation by stromal Hedgehog pathway activation restrains colitis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E7545-E7553.	7.1	73
32	Correcting glucose-6-phosphate dehydrogenase deficiency with a small-molecule activator. <i>Nature Communications</i> , 2018, 9, 4045.	12.8	70
33	A Small-Molecule Smoothed Agonist Prevents Glucocorticoid-Induced Neonatal Cerebellar Injury. <i>Science Translational Medicine</i> , 2011, 3, 105ra104.	12.4	67
34	Controlling Destiny through Chemistry: Small-Molecule Regulators of Cell Fate. <i>ACS Chemical Biology</i> , 2010, 5, 15-34.	3.4	65
35	Small-molecule regulation of zebrafish gene expression. <i>Nature Chemical Biology</i> , 2007, 3, 154-155.	8.0	62
36	Ultrasensitive optical imaging with lanthanide lumiphores. <i>Nature Chemical Biology</i> , 2018, 14, 15-21.	8.0	61

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37	The decoupling of Smoothed from Gli proteins has little effect on Gli3 protein processing and Hedgehog-regulated chick neural tube patterning. <i>Developmental Biology</i> , 2008, 321, 188-196.	2.0	60
38	Cyclic Caged Morpholinos: Conformationally Gated Probes of Embryonic Gene Function. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6908-6911.	13.8	55
39	I only have eye for ewe: the discovery of cyclopamine and development of Hedgehog pathway-targeting drugs. <i>Natural Product Reports</i> , 2016, 33, 595-601.	10.3	53
40	Converse Conformational Control of Smoothed Activity by Structurally Related Small Molecules. <i>Journal of Biological Chemistry</i> , 2009, 284, 20876-20884.	3.4	51
41	Crystal Structure of P13K SH3 Domain at 2.0 Å... Resolution. <i>Journal of Molecular Biology</i> , 1996, 257, 632-643.	4.2	49
42	Lanthanide-Based Optical Probes of Biological Systems. <i>Cell Chemical Biology</i> , 2020, 27, 921-936.	5.2	43
43	Combinatorial Synthesis and Multidimensional NMR Spectroscopy: An Approach to Understanding Protein-Ligand Interactions. <i>Angewandte Chemie International Edition in English</i> , 1995, 34, 953-969.	4.4	42
44	HIPK4 is essential for murine spermiogenesis. <i>ELife</i> , 2020, 9, .	6.0	40
45	Spatiotemporal resolution of the Ntla transcriptome in axial mesoderm development. <i>Nature Chemical Biology</i> , 2012, 8, 270-276.	8.0	39
46	The Imidazopyridine Derivative...JK184 Reveals Dual Roles for Microtubules in Hedgehog Signaling. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 2321-2324.	13.8	37
47	Roles of Hedgehog pathway components and retinoic acid signalling in specifying zebrafish ventral spinal cord neurons. <i>Development (Cambridge)</i> , 2011, 138, 5121-5134.	2.5	36
48	Arhgap36-dependent activation of Gli transcription factors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 11061-11066.	7.1	35
49	Hyaluronic acid synthesis is required for zebrafish tail fin regeneration. <i>PLoS ONE</i> , 2017, 12, e0171898.	2.5	34
50	Post-transcriptional mechanisms contribute to Etv2 repression during vascular development. <i>Developmental Biology</i> , 2013, 384, 128-140.	2.0	31
51	Chemical structure-guided design of dynapyrazoles, cell-permeable dynein inhibitors with a unique mode of action. <i>ELife</i> , 2017, 6, .	6.0	31
52	Chemical "Jekyll and Hyde"™s: small-molecule inhibitors of developmental signaling pathways. <i>Chemical Society Reviews</i> , 2011, 40, 4318.	38.1	30
53	Oligonucleotide-Based Tools for Studying Zebrafish Development. <i>Zebrafish</i> , 2010, 7, 31-40.	1.1	28
54	Affinity Capillary Electrophoresis: Insights into the Binding of SH3 Domains by Peptides Derived from an SH3-Binding Protein. <i>Journal of Organic Chemistry</i> , 1994, 59, 2885-2886.	3.2	26

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55	Sequential Gene Silencing Using Wavelength-Selective Caged Morpholino Oligonucleotides. <i>Angewandte Chemie</i> , 2014, 126, 10278-10282.	2.0	26
56	Functional inhibition of UQCRB suppresses angiogenesis in zebrafish. <i>Biochemical and Biophysical Research Communications</i> , 2013, 433, 396-400.	2.1	25
57	Chemical technologies for probing embryonic development. <i>Chemical Society Reviews</i> , 2008, 37, 1294.	38.1	24
58	Small Molecule Control of Morpholino Antisense Oligonucleotide Function through Staudinger Reduction. <i>Journal of the American Chemical Society</i> , 2021, 143, 18665-18671.	13.7	23
59	Nitroreductase-Activatable Morpholino Oligonucleotides for <i>in Vivo</i> Gene Silencing. <i>ACS Chemical Biology</i> , 2014, 9, 1985-1990.	3.4	20
60	Germ cell migration in zebrafish is cyclopamine-sensitive but Smoothed-independent. <i>Developmental Biology</i> , 2009, 328, 342-354.	2.0	19
61	Cytoplasmic Dynein Antagonists with Improved Potency and Isoform Selectivity. <i>ACS Chemical Biology</i> , 2016, 11, 53-60.	3.4	19
62	Targeted cell ablation in zebrafish using optogenetic transcriptional control. <i>Development (Cambridge)</i> , 2020, 147, .	2.5	17
63	Targeting colorectal cancer with small-molecule inhibitors of ALDH1B1. <i>Nature Chemical Biology</i> , 2022, 18, 1065-1075.	8.0	17
64	Affinity electrophoresis in multisectional polyacrylamide slab gels is a useful and convenient technique for measuring binding constants of aryl sulfonamides to bovine carbonic anhydrase B. <i>Analytical Chemistry</i> , 1993, 65, 1314-1322.	6.5	16
65	Basal constriction during midbrain-hindbrain boundary morphogenesis is mediated by Wnt5b and focal adhesion kinase. <i>Biology Open</i> , 2018, 7, .	1.2	16
66	In Vivo Imaging of Hedgehog Pathway Activation with a Nuclear Fluorescent Reporter. <i>PLoS ONE</i> , 2014, 9, e103661.	2.5	16
67	Gene regulation technologies in zebrafish. <i>Molecular BioSystems</i> , 2008, 4, 300.	2.9	14
68	Optochemical Dissection of T-box Gene-Dependent Medial Floor Plate Development. <i>ACS Chemical Biology</i> , 2015, 10, 1466-1475.	3.4	14
69	Spatiotemporal Control of Embryonic Gene Expression Using Caged Morpholinos. <i>Methods in Cell Biology</i> , 2011, 104, 151-172.	1.1	12
70	Hedgehog and retinoic acid signaling cooperate to promote motoneurogenesis in zebrafish. <i>Development (Cambridge)</i> , 2011, 138, 5113-5119.	2.5	12
71	SH3 domain-mediated dimerization of an n-terminal fragment of the phosphatidylinositol 3-kinase p85 subunit. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1994, 4, 1755-1760.	2.2	11
72	Synthetic Strategies for Studying Embryonic Development. <i>Chemistry and Biology</i> , 2010, 17, 590-606.	6.0	11

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73	Tbx16 regulates hox gene activation in mesodermal progenitor cells. <i>Nature Chemical Biology</i> , 2016, 12, 694-701.	8.0	11
74	Bicyclic Imidazolium Inhibitors of Gli Transcription Factor Activity. <i>ChemMedChem</i> , 2020, 15, 1044-1049.	3.2	10
75	Kombinatorische Synthese und mehrdimensionale NMR-Spektroskopie: ein Beitrag zum Verstandnis von Protein-Ligand-Wechselwirkungen. <i>Angewandte Chemie</i> , 1995, 107, 1041-1058.	2.0	9
76	A novel missense variant in the GLI3 zinc finger domain in a family with digital anomalies. <i>American Journal of Medical Genetics, Part A</i> , 2017, 173, 3221-3225.	1.2	7
77	Combinatorial control of gene function with wavelength-selective caged morpholinos. <i>Methods in Enzymology</i> , 2019, 624, 69-88.	1.0	7
78	Discovery of novel determinants of endothelial lineage using chimeric heterokaryons. <i>ELife</i> , 2017, 6, .	6.0	7
79	Lineage Labeling of Zebrafish Cells with Laser Uncagable Fluorescein Dextran. <i>Journal of Visualized Experiments</i> , 2011, , .	0.3	6
80	Fish 'n clicks. <i>Nature Chemical Biology</i> , 2008, 4, 391-392.	8.0	5
81	Thinking big with small molecules. <i>Journal of Cell Biology</i> , 2015, 209, 7-9.	5.2	5
82	Small-Molecule Inhibitors of the Hedgehog Pathway. , 2011, , 163-186.		3
83	Molecular Recognition in Gels, Monolayers, and Solids. <i>ACS Symposium Series</i> , 1992, , 227-239.	0.5	2
84	Structure-activity mapping of ARHGAP36 reveals regulatory roles for its GAP homology and C-terminal domains. <i>PLoS ONE</i> , 2021, 16, e0251684.	2.5	2
85	Targeted and Conditional Gene Expression Workshop, 8th International Conference on Zebrafish Development and Genetics. <i>Zebrafish</i> , 2008, 5, 193-195.	1.1	1
86	trLRET microscopy: Ultrasensitive imaging of lanthanide luminophores. <i>Methods in Enzymology</i> , 2020, 640, 225-248.	1.0	1
87	Emerging technologies in molecular imaging: new windows into biology. <i>Current Opinion in Chemical Biology</i> , 2013, 17, 635-636.	6.1	0