

Yang K Xiang

List of Publications by Year in descending order

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88
papers

5,970
citations

81743

39
h-index

74018

75
g-index

94
all docs

94
docs citations

94
times ranked

8090
citing authors

#	ARTICLE	IF	CITATIONS
1	PACS-2 controls endoplasmic reticulum-mitochondria communication and Bid-mediated apoptosis. <i>EMBO Journal</i> , 2005, 24, 717-729.	3.5	469
2	Probing cellular protein complexes using single-molecule pull-down. <i>Nature</i> , 2011, 473, 484-488.	13.7	375
3	β 2-Adrenoreceptor is a regulator of the α -synuclein gene driving risk of Parkinson's disease. <i>Science</i> , 2017, 357, 891-898.	6.0	341
4	PACS-1 Defines a Novel Gene Family of Cytosolic Sorting Proteins Required for trans-Golgi Network Localization. <i>Cell</i> , 1998, 94, 205-216.	13.5	337
5	Sequential Binding of Agonists to the β 2 Adrenoceptor. <i>Journal of Biological Chemistry</i> , 2004, 279, 686-691.	1.6	311
6	Receptor Number and Caveolar Co-localization Determine Receptor Coupling Efficiency to Adenylyl Cyclase. <i>Journal of Biological Chemistry</i> , 2001, 276, 42063-42069.	1.6	233
7	Caveolar Localization Dictates Physiologic Signaling of β 2-Adrenoceptors in Neonatal Cardiac Myocytes. <i>Journal of Biological Chemistry</i> , 2002, 277, 34280-34286.	1.6	219
8	Myocyte Adrenoceptor Signaling Pathways. <i>Science</i> , 2003, 300, 1530-1532.	6.0	192
9	Single-molecule pull-down for studying protein interactions. <i>Nature Protocols</i> , 2012, 7, 445-452.	5.5	172
10	Epigenetic Regulation of Phosphodiesterases 2A and 3A Underlies Compromised β 2-Adrenergic Signaling in an iPSC Model of Dilated Cardiomyopathy. <i>Cell Stem Cell</i> , 2015, 17, 89-100.	5.2	170
11	Oleic Acid Stimulates Complete Oxidation of Fatty Acids through Protein Kinase A-dependent Activation of SIRT1-PGC1 α Complex. <i>Journal of Biological Chemistry</i> , 2013, 288, 7117-7126.	1.6	159
12	Empagliflozin Ameliorates Obesity-Related Cardiac Dysfunction by Regulating Sestrin2-Mediated AMPK-mTOR Signaling and Redox Homeostasis in High-Fat Diet-Induced Obese Mice. <i>Diabetes</i> , 2020, 69, 1292-1305.	0.3	121
13	Mechanochemical Delivery and Dynamic Tracking of Fluorescent Quantum Dots in the Cytoplasm and Nucleus of Living Cells. <i>Nano Letters</i> , 2009, 9, 2193-2198.	4.5	119
14	Phosphodiesterase 4D is required for β 2 adrenoceptor subtype-specific signaling in cardiac myocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 909-914.	3.3	116
15	Dosage-dependent switch from G protein-coupled to G protein-independent signaling by a GPCR. <i>EMBO Journal</i> , 2007, 26, 53-64.	3.5	103
16	The PDZ Binding Motif of the β 1 Adrenergic Receptor Modulates Receptor Trafficking and Signaling in Cardiac Myocytes. <i>Journal of Biological Chemistry</i> , 2002, 277, 33783-33790.	1.6	99
17	Inhibiting Insulin-Mediated β 2-Adrenergic Receptor Activation Prevents Diabetes-Associated Cardiac Dysfunction. <i>Circulation</i> , 2017, 135, 73-88.	1.6	98
18	Organization of β 2-adrenoceptor signaling compartments by sympathetic innervation of cardiac myocytes. <i>Journal of Cell Biology</i> , 2007, 176, 521-533.	2.3	93

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19	The PDZ-binding motif of the β_2 -adrenoceptor is essential for physiologic signaling and trafficking in cardiac myocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 10776-10781.	3.3	88
20	Compartmentalization of β_2 -Adrenergic Signals in Cardiomyocytes. <i>Circulation Research</i> , 2011, 109, 231-244.	2.0	86
21	β_2 Adrenergic Receptor, Protein Kinase A (PKA) and c-Jun N-terminal Kinase (JNK) Signaling Pathways Mediate Tau Pathology in Alzheimer Disease Models. <i>Journal of Biological Chemistry</i> , 2013, 288, 10298-10307.	1.6	81
22	Insulin Inhibits Cardiac Contractility by Inducing a Gi-Biased β_2 -Adrenergic Signaling in Hearts. <i>Diabetes</i> , 2014, 63, 2676-2689.	0.3	77
23	Binding of amyloid β peptide to β_2 adrenergic receptor induces PKA-dependent AMPA receptor hyperactivity. <i>FASEB Journal</i> , 2010, 24, 3511-3521.	0.2	73
24	Amyloid β Peptide-(1-42) Induces Internalization and Degradation of β_2 Adrenergic Receptors in Prefrontal Cortical Neurons. <i>Journal of Biological Chemistry</i> , 2011, 286, 31852-31863.	1.6	72
25	Phosphodiesterases coordinate cAMP propagation induced by two stimulatory G protein-coupled receptors in hearts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 6578-6583.	3.3	67
26	A multi-protein receptor-ligand complex underlies combinatorial dendrite guidance choices in <i>C. elegans</i> . <i>ELife</i> , 2016, 5, .	2.8	62
27	Adenylyl Cyclase Anchoring by a Kinase Anchor Protein AKAP5 (AKAP79/150) Is Important for Postsynaptic β_2 -Adrenergic Signaling. <i>Journal of Biological Chemistry</i> , 2013, 288, 17918-17931.	1.6	61
28	Phosphorylation of Ca _v 1.2 on S1928 uncouples the L-type Ca ²⁺ channel from the β_2 adrenergic receptor. <i>EMBO Journal</i> , 2016, 35, 1330-1345.	3.5	61
29	β_2 -Biased β_2 -Adrenergic Receptor Signaling from Restoring Synchronous Contraction in the Failing Heart. <i>Science Translational Medicine</i> , 2011, 3, 100ra88.	5.8	60
30	Differential Association of Phosphodiesterase 4D Isoforms with β_2 -Adrenoceptor in Cardiac Myocytes. <i>Journal of Biological Chemistry</i> , 2009, 284, 33824-33832.	1.6	59
31	Norepinephrine- and Epinephrine-induced Distinct β_2 -Adrenoceptor Signaling Is Dictated by GRK2 Phosphorylation in Cardiomyocytes. <i>Journal of Biological Chemistry</i> , 2008, 283, 1799-1807.	1.6	57
32	A Dendritic Guidance Receptor Complex Brings Together Distinct Actin Regulators to Drive Efficient F-Actin Assembly and Branching. <i>Developmental Cell</i> , 2018, 45, 362-375.e3.	3.1	56
33	Agonist Dose-dependent Phosphorylation by Protein Kinase A and G Protein-coupled Receptor Kinase Regulates β_2 Adrenoceptor Coupling to Gi Proteins in Cardiomyocytes. <i>Journal of Biological Chemistry</i> , 2009, 284, 32279-32287.	1.6	55
34	Postsynaptic β_2 Adrenergic Receptors are Critical for the Antidepressant-Like Effects of Desipramine on Behavior. <i>Neuropsychopharmacology</i> , 2009, 34, 1067-1077.	2.8	53
35	Dynamic Protein Kinase A Activities Induced by β_2 -Adrenoceptors Dictate Signaling Propagation for Substrate Phosphorylation and Myocyte Contraction. <i>Circulation Research</i> , 2009, 104, 770-779.	2.0	50
36	Arrestin Orchestrates Crosstalk Between G Protein-Coupled Receptors to Modulate the Spatiotemporal Activation of ERK MAPK. <i>Circulation Research</i> , 2010, 106, 79-88.	2.0	48

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37	FRET-based direct detection of dynamic protein kinase A activity on the sarcoplasmic reticulum in cardiomyocytes. <i>Biochemical and Biophysical Research Communications</i> , 2011, 404, 581-586.	1.0	45
38	The phosphorylation state of an autoregulatory domain controls PACS-1-directed protein traffic. <i>EMBO Journal</i> , 2003, 22, 6234-6244.	3.5	44
39	Genetically Encoded Biosensors Reveal PKA Hyperphosphorylation on the Myofilaments in Rabbit Heart Failure. <i>Circulation Research</i> , 2016, 119, 931-943.	2.0	43
40	Cardiomyocytes with disrupted CFTR function require CaMKII and Ca ²⁺ -activated Cl ⁻ channel activity to maintain contraction rate. <i>Journal of Physiology</i> , 2010, 588, 2417-2429.	1.3	42
41	Heterologous desensitization of cardiac β^2 -adrenergic signal via hormone-induced β^2 AR/arrestin/PDE4 complexes. <i>Cardiovascular Research</i> , 2017, 113, 656-670.	1.8	41
42	Inhibition of type 5 phosphodiesterase counteracts β^2 -adrenergic signalling in beating cardiomyocytes. <i>Cardiovascular Research</i> , 2015, 106, 408-420.	1.8	40
43	Whole-Cell cAMP and PKA Activity are Epiphenomena, Nanodomain Signaling Matters. <i>Physiology</i> , 2019, 34, 240-249.	1.6	40
44	Insulin and β^2 Adrenergic Receptor Signaling: Crosstalk in Heart. <i>Trends in Endocrinology and Metabolism</i> , 2017, 28, 416-427.	3.1	39
45	β^2 -adrenergic-mediated dynamic augmentation of sarcolemmal Ca _v 1.2 clustering and cooperativity in ventricular myocytes. <i>Journal of Physiology</i> , 2019, 597, 2139-2162.	1.3	38
46	Intracellular β^1 -Adrenergic Receptors and Organic Cation Transporter 3 Mediate Phospholamban Phosphorylation to Enhance Cardiac Contractility. <i>Circulation Research</i> , 2021, 128, 246-261.	2.0	38
47	Adenylyl cyclase 5-generated cAMP controls cerebral vascular reactivity during diabetic hyperglycemia. <i>Journal of Clinical Investigation</i> , 2019, 129, 3140-3152.	3.9	35
48	Phosphodiesterase 4 and Phosphatase 2A Differentially Regulate cAMP/Protein Kinase A Signaling for Cardiac Myocyte Contraction under Stimulation of β^1 Adrenergic Receptor. <i>Molecular Pharmacology</i> , 2008, 74, 1453-1462.	1.0	34
49	The Third Intracellular Loop and the Carboxyl Terminus of β^2 -Adrenergic Receptor Confer Spontaneous Activity of the Receptor. <i>Molecular Pharmacology</i> , 2003, 64, 1048-1058.	1.0	33
50	A Gs-coupled purinergic receptor boosts Ca ²⁺ influx and vascular contractility during diabetic hyperglycemia. <i>ELife</i> , 2019, 8, .	2.8	33
51	Equilibrium between Adenylyl Cyclase and Phosphodiesterase Patterns Adrenergic Agonist Dose-Dependent Spatiotemporal cAMP/Protein Kinase A Activities in Cardiomyocytes. <i>Molecular Pharmacology</i> , 2010, 78, 340-349.	1.0	32
52	Insulin induces IRS2-dependent and GRK2-mediated β^2 AR internalization to attenuate β^2 AR signaling in cardiomyocytes. <i>Cellular Signalling</i> , 2015, 27, 707-715.	1.7	31
53	Phosphodiesterase 5 Associates With β^2 Adrenergic Receptor to Modulate Cardiac Function in Type 2 Diabetic Hearts. <i>Journal of the American Heart Association</i> , 2019, 8, e012273.	1.6	30
54	Functionally distinct and selectively phosphorylated GPCR subpopulations co-exist in a single cell. <i>Nature Communications</i> , 2018, 9, 1050.	5.8	28

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55	A Long Lasting β_1 Adrenergic Receptor Stimulation of cAMP/Protein Kinase A (PKA) Signal in Cardiac Myocytes. <i>Journal of Biological Chemistry</i> , 2014, 289, 14771-14781.	1.6	27
56	β_1 -adrenergic receptor O-glycosylation regulates N-terminal cleavage and signaling responses in cardiomyocytes. <i>Scientific Reports</i> , 2017, 7, 7890.	1.6	27
57	The non-receptor tyrosine kinase Lyn controls neutrophil adhesion by recruiting the Crk/C3G complex and activating Rap1 at the leading edge. <i>Journal of Cell Science</i> , 2011, 124, 2153-2164.	1.2	23
58	Compartmentalization of β_2 -adrenergic signals in cardiomyocytes. <i>Trends in Cardiovascular Medicine</i> , 2013, 23, 250-256.	2.3	23
59	Genetic suppression of β_2 -adrenergic receptors ameliorates tau pathology in a mouse model of tauopathies. <i>Human Molecular Genetics</i> , 2014, 23, 4024-4034.	1.4	22
60	AKAP5 complex facilitates purinergic modulation of vascular L-type Ca^{2+} channel $Ca_v1.2$. <i>Nature Communications</i> , 2020, 11, 5303.	5.8	22
61	A Myt1 family transcription factor defines neuronal fate by repressing non-neuronal genes. <i>ELife</i> , 2019, 8, .	2.8	21
62	Insulin receptor substrates differentially exacerbate insulin-mediated left ventricular remodeling. <i>JCI Insight</i> , 2020, 5, .	2.3	19
63	N-Ethylmaleimide-Sensitive Factor Regulates β_2 Adrenoceptor Trafficking and Signaling in Cardiomyocytes. <i>Molecular Pharmacology</i> , 2007, 72, 429-439.	1.0	18
64	Trafficking of β_2 -Adrenergic Receptors. <i>Progress in Molecular Biology and Translational Science</i> , 2015, 132, 151-188.	0.9	17
65	Carvedilol induces biased β_1 adrenergic receptor-nitric oxide synthase 3-cyclic guanylyl monophosphate signalling to promote cardiac contractility. <i>Cardiovascular Research</i> , 2021, 117, 2237-2251.	1.8	16
66	GRK5 Controls SAP97-Dependent Cardiotoxic β_1 Adrenergic Receptor-CaMKII Signaling in Heart Failure. <i>Circulation Research</i> , 2020, 127, 796-810.	2.0	16
67	Cross-Talk Between Insulin Signaling and G Protein-Coupled Receptors. <i>Journal of Cardiovascular Pharmacology</i> , 2017, 70, 74-86.	0.8	15
68	Nanodelivery of a functional membrane receptor to manipulate cellular phenotype. <i>Scientific Reports</i> , 2018, 8, 3556.	1.6	15
69	Illuminating cell signaling with genetically encoded FRET biosensors in adult mouse cardiomyocytes. <i>Journal of General Physiology</i> , 2018, 150, 1567-1582.	0.9	15
70	Orally Available Soluble Epoxide Hydrolase/Phosphodiesterase 4 Dual Inhibitor Treats Inflammatory Pain. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 3541-3550.	2.9	14
71	SAP97 Controls the Trafficking and Resensitization of the Beta-1-Adrenergic Receptor through Its PDZ2 and I3 Domains. <i>PLoS ONE</i> , 2013, 8, e63379.	1.1	14
72	Monoamine Oxidases Desensitize Intracellular β_1 AR Signaling in Heart Failure. <i>Circulation Research</i> , 2021, 129, 965-967.	2.0	13

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73	β -blockers augment L-type Ca ²⁺ channel activity by targeting spatially restricted β 2AR signaling in neurons. <i>ELife</i> , 2019, 8, .	2.8	12
74	Hyperinsulinemia promotes heterologous desensitization of β 2 adrenergic receptor in airway smooth muscle in obesity. <i>FASEB Journal</i> , 2020, 34, 3996-4008.	0.2	10
75	Monoamine oxidase A and organic cation transporter 3 coordinate intracellular β 1AR signaling to calibrate cardiac contractile function. <i>Basic Research in Cardiology</i> , 2022, 117, .	2.5	9
76	With or Without Langendorff. <i>Circulation Research</i> , 2016, 119, 888-890.	2.0	7
77	High-fat diet induces protein kinase A and G-protein receptor kinase phosphorylation of β 2 adrenergic receptor and impairs cardiac adrenergic reserve in animal hearts. <i>Journal of Physiology</i> , 2017, 595, 1973-1986.	1.3	7
78	β -Adrenergic Receptor, Amyloid β -Peptide, and Alzheimer's Disease. <i>Current Topics in Membranes</i> , 2011, 67, 205-228.	0.5	6
79	$\text{G}\beta$ 12 and $\text{G}\beta$ 13: Versatility in Physiology and Pathology. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 809425.	1.8	6
80	Subcellular Propagation of Cardiomyocyte β -Adrenergic Activation of Calcium Uptake Involves Internal β -Receptors and AKAP7. <i>Function</i> , 2022, 3, .	1.1	6
81	Deciphering cellular signals in adult mouse sinoatrial node cells. <i>IScience</i> , 2022, 25, 103693.	1.9	4
82	Three Recombinant Engineered Antibodies against Recombinant Tags with High Affinity and Specificity. <i>PLoS ONE</i> , 2016, 11, e0150125.	1.1	3
83	Wrapped around the heart. <i>Nature</i> , 2014, 507, 43-44.	13.7	1
84	Profiling of Differential Expression of Genes in Mice Carrying Both Mutant Presenilin 1 and Amyloid Precursor Protein Transgenes with or without Knockout of β 2 Adrenergic Receptor Gene. <i>Journal of Applied Bioinformatics & Computational Biology</i> , 2018, 07, .	0.2	1
85	Compartmentalized cAMP signaling in arterial myocytes. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
86	Norepinephrine and epinephrine induce distinct beta2 adrenoceptor signaling in cardiac myocytes. <i>FASEB Journal</i> , 2006, 20, .	0.2	0
87	FRET studies on distinct cAMP/PKA signaling induced by beta adrenergic receptor subtypes. <i>FASEB Journal</i> , 2009, 23, 709.1.	0.2	0
88	Equilibrium between adenylyl cyclase and phosphodiesterase patterns adrenergic agonist dose-dependent spatiotemporal cAMP/PKA activities. <i>FASEB Journal</i> , 2011, 25, 1012.3.	0.2	0