Yubin Zhou

List of Publications by Year in descending order

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71102 56724 7,850 137 41 83 citations h-index g-index papers 142 142 142 10361 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (4th) Tj ETQq $1\ 1\ 0.784314\ rgBT$ /Ov	eglack 10	Tf,50,742 To
2	The LINK-A lncRNA activates normoxic HIF1 $\hat{l}\pm$ signalling in triple-negative breast cancer. Nature Cell Biology, 2016, 18, 213-224.	10.3	444
3	Viral calciomics: Interplays between Ca2+ and virus. Cell Calcium, 2009, 46, 1-17.	2.4	286
4	TRIM14 Inhibits cGAS Degradation Mediated by Selective Autophagy Receptor p62 to Promote Innate Immune Responses. Molecular Cell, 2016, 64, 105-119.	9.7	277
5	STIM1 gates the store-operated calcium channel ORAI1 in vitro. Nature Structural and Molecular Biology, 2010, 17, 112-116.	8.2	212
6	The LINK-A lncRNA interacts with PtdIns(3,4,5)P3 toÂhyperactivate AKTÂand confer resistance to AKTÂinhibitors. Nature Cell Biology, 2017, 19, 238-251.	10.3	201
7	Near-infrared photoactivatable control of Ca2+ signaling and optogenetic immunomodulation. ELife, 2015, 4, .	6.0	197
8	Proteomic mapping of ER–PM junctions identifies STIMATE as a regulator of Ca2+ influx. Nature Cell Biology, 2015, 17, 1339-1347.	10.3	179
9	Initial activation of STIM1, the regulator of store-operated calcium entry. Nature Structural and Molecular Biology, 2013, 20, 973-981.	8.2	175
10	Targeted DNA methylation in vivo using an engineered dCas9-MQ1 fusion protein. Nature Communications, 2017, 8, 16026.	12.8	158
11	Inside-out Ca2+ signalling prompted by STIM1 conformational switch. Nature Communications, 2015, 6, 7826.	12.8	144
12	Prediction of EF-hand calcium-binding proteins and analysis of bacterial EF-hand proteins. Proteins: Structure, Function and Bioinformatics, 2006, 65, 643-655.	2.6	136
13	Pore architecture of the ORAI1 store-operated calcium channel. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 4896-4901.	7.1	136
14	LncRNA CamK-A Regulates Ca2+-Signaling-Mediated Tumor Microenvironment Remodeling. Molecular Cell, 2018, 72, 71-83.e7.	9.7	119
15	Comprehensive characterization of circular RNAs in ~ 1000 human cancer cell lines. Genome Medicine, 2019, 11, 55.	8.2	116
16	Multiple Ca ²⁺ -Binding Sites in the Extracellular Domain of the Ca ²⁺ -Sensing Receptor Corresponding to Cooperative Ca ²⁺ Response. Biochemistry, 2009, 48, 388-398.	2.5	115
17	Rational Design of Protein-Based MRI Contrast Agents. Journal of the American Chemical Society, 2008, 130, 9260-9267.	13.7	111
18	Single-Atom Fluorescence Switch: A General Approach toward Visible-Light-Activated Dyes for Biological Imaging. Journal of the American Chemical Society, 2019, 141, 14699-14706.	13.7	98

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19	Nearâ€Infraredâ€Light Activatable Nanoparticles for Deepâ€Tissueâ€Penetrating Wireless Optogenetics. Advanced Healthcare Materials, 2019, 8, e1801132.	7.6	94
20	Identification and Dissection of Ca2+-binding Sites in the Extracellular Domain of Ca2+-sensing Receptor. Journal of Biological Chemistry, 2007, 282, 19000-19010.	3.4	93
21	RNA modifications and cancer. RNA Biology, 2020, 17, 1560-1575.	3.1	93
22	Autophagy and Viral Infection. Advances in Experimental Medicine and Biology, 2019, 1209, 55-78.	1.6	92
23	Store-operated CRAC channel inhibitors: opportunities and challenges. Future Medicinal Chemistry, 2016, 8, 817-832.	2.3	82
24	Identification of the Calmodulin Binding Domain of Connexin 43. Journal of Biological Chemistry, 2007, 282, 35005-35017.	3.4	79
25	TRIM59 promotes breast cancer motility by suppressing p62-selective autophagic degradation of PDCD10. PLoS Biology, 2018, 16, e3000051.	5.6	78
26	Nano-optogenetic engineering of CAR T cells for precision immunotherapy with enhanced safety. Nature Nanotechnology, 2021, 16, 1424-1434.	31.5	78
27	Calciomics: integrative studies of Ca ²⁺ -binding proteins and their interactomes in biological systems. Metallomics, 2013, 5, 29-42.	2.4	77
28	<scp>SOCE</scp> and cancer: Recent progress and new perspectives. International Journal of Cancer, 2016, 138, 2067-2077.	5.1	77
29	Optogenetic Immunomodulation: Shedding Light on Antitumor Immunity. Trends in Biotechnology, 2017, 35, 215-226.	9.3	77
30	STIM1 triggers a gating rearrangement at the extracellular mouth of the ORAI1 channel. Nature Communications, 2014, 5, 5164.	12.8	75
31	Illuminating Cell Signaling with Near-Infrared Light-Responsive Nanomaterials. ACS Nano, 2016, 10, 3881-3885.	14.6	71
32	Mutations in 5-methylcytosine oxidase TET2 and RhoA cooperatively disrupt T cell homeostasis. Journal of Clinical Investigation, 2017, 127, 2998-3012.	8.2	68
33	Decoding the dynamic DNA methylation and hydroxymethylation landscapes in endodermal lineage intermediates during pancreatic differentiation of hESC. Nucleic Acids Research, 2018, 46, 2883-2900.	14.5	66
34	SKF-96365 activates cytoprotective autophagy to delay apoptosis in colorectal cancer cells through inhibition of the calcium/CaMKIIγ/AKT-mediated pathway. Cancer Letters, 2016, 372, 226-238.	7.2	63
35	TMEM110 regulates the maintenance and remodeling of mammalian ER–plasma membrane junctions competent for STIM–ORAI signaling. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E7083-92.	7.1	58
36	Optogenetic toolkit for precise control of calcium signaling. Cell Calcium, 2017, 64, 36-46.	2.4	56

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37	The role of autophagy in colitis-associated colorectal cancer. Signal Transduction and Targeted Therapy, 2018, 3, 31.	17.1	52
38	cybLuc: An Effective Aminoluciferin Derivative for Deep Bioluminescence Imaging. Analytical Chemistry, 2017, 89, 4808-4816.	6.5	51
39	Calcium sensing by the STIM1 ER-luminal domain. Nature Communications, 2018, 9, 4536.	12.8	51
40	Optophysiology: Illuminating cell physiology with optogenetics. Physiological Reviews, 2022, 102, 1263-1325.	28.8	51
41	Optogenetic engineering to probe the molecular choreography of STIM1-mediated cell signaling. Nature Communications, 2020, 11 , 1039 .	12.8	50
42	Circularly permuted LOV2 as a modular photoswitch for optogenetic engineering. Nature Chemical Biology, 2021, 17, 915-923.	8.0	48
43	Molecular interaction and functional regulation of connexin50 gap junctions by calmodulin. Biochemical Journal, 2011, 435, 711-722.	3.7	45
44	Tet inactivation disrupts YY1 binding and long-range chromatin interactions during embryonic heart development. Nature Communications, 2019, 10, 4297.	12.8	44
45	Calmodulin Mediates the Ca2+-Dependent Regulation of Cx44 Gap Junctions. Biophysical Journal, 2009, 96, 2832-2848.	0.5	42
46	Reliable tumor detection by whole-genome methylation sequencing of cell-free DNA in cerebrospinal fluid of pediatric medulloblastoma. Science Advances, 2020, 6, .	10.3	42
47	STIM–ORAI Interactions That Control the CRAC Channel. Current Topics in Membranes, 2013, 71, 33-58.	0.9	41
48	STIM2 interacts with AMPK and regulates calciumâ€induced AMPK activation. FASEB Journal, 2019, 33, 2957-2970.	0.5	41
49	Calcium oscillations coordinate feather mesenchymal cell movement by SHH dependent modulation of gap junction networks. Nature Communications, 2018, 9, 5377.	12.8	40
50	Optical control of membrane tethering and interorganellar communication at nanoscales. Chemical Science, 2017, 8, 5275-5281.	7.4	39
51	Functional Elements on SIRPα IgV Domain Mediate Cell Surface Binding to CD47. Journal of Molecular Biology, 2007, 365, 680-693.	4.2	38
52	Storeâ€Operated Calcium Entry Mediated byÂORAIÂand STIM. , 2018, 8, 981-1002.		37
53	TET1â€Mediated Oxidation of 5â€Formylcytosine (5fC) to 5â€Carboxycytosine (5caC) in RNA. ChemBioChem, 2017, 18, 72-76.	2.6	36
54	Rewiring Calcium Signaling for Precise Transcriptional Reprogramming. ACS Synthetic Biology, 2018, 7, 814-821.	3.8	36

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55	A combination strategy targeting enhancer plasticity exerts synergistic lethality against BETi-resistant leukemia cells. Nature Communications, 2020, 11, 740.	12.8	36
56	Targeting mutant TP53 as a potential therapeutic strategy for the treatment of osteosarcoma. Journal of Orthopaedic Research, 2019, 37, 789-798.	2.3	35
57	Optical Control of CRAC Channels Using Photoswitchable Azopyrazoles. Journal of the American Chemical Society, 2020, 142, 9460-9470.	13.7	35
58	A single EFâ€hand isolated from STIM1 forms dimer in the absence and presence of Ca ²⁺ . FEBS Journal, 2009, 276, 5589-5597.	4.7	33
59	Stromal Interaction Molecule 1 (STIM1) and Orai1 Mediate Histamine-evoked Calcium Entry and Nuclear Factor of Activated T-cells (NFAT) Signaling in Human Umbilical Vein Endothelial Cells. Journal of Biological Chemistry, 2014, 289, 29446-29456.	3.4	33
60	Engineering of a bona fide light-operated calcium channel. Nature Communications, 2021, 12, 164.	12.8	32
61	Targeting epigenetic regulatory machinery to overcome cancer therapy resistance. Seminars in Cancer Biology, 2022, 83, 487-502.	9.6	32
62	Environment-Sensitive Fluorescent Probe for the Human Ether-a-go-go-Related Gene Potassium Channel. Analytical Chemistry, 2016, 88, 1511-1515.	6.5	31
63	Characterization of the dual functional effects of heat shock proteins (HSPs) in cancer hallmarks to aid development of HSP inhibitors. Genome Medicine, 2020, 12, 101.	8.2	31
64	The disordered N-terminal domain of DNMT3A recognizes H2AK119ub and is required for postnatal development. Nature Genetics, 2022, 54, 625-636.	21.4	31
65	Identification of a Ca 2+ -Binding Domain in the Rubella Virus Nonstructural Protease. Journal of Virology, 2007, 81, 7517-7528.	3.4	29
66	Identification of molecular determinants that govern distinct STIM2 activation dynamics. PLoS Biology, 2018, 16, e2006898.	5.6	29
67	A molecular toolbox for interrogation of membrane contact sites. Journal of Physiology, 2020, 598, 1725-1739.	2.9	29
68	Discovery of the First Environment-Sensitive Near-Infrared (NIR) Fluorogenic Ligand for α ₁ -Adrenergic Receptors Imaging in Vivo. Journal of Medicinal Chemistry, 2016, 59, 2151-2162.	6.4	28
69	Elucidation of a Novel Extracellular Calcium-binding Site on Metabotropic Glutamate Receptor 1α (mGluR1α) That Controls Receptor Activation*. Journal of Biological Chemistry, 2010, 285, 33463-33474.	3.4	27
70	Calmodulin Regulates Ca2+-sensing Receptor-mediated Ca2+ Signaling and Its Cell Surface Expression. Journal of Biological Chemistry, 2010, 285, 35919-35931.	3.4	27
71	CRAC channel-based optogenetics. Cell Calcium, 2018, 75, 79-88.	2.4	25
72	Discovery of Small-Molecule Inhibitors of the HSP90-Calcineurin-NFAT Pathway against Glioblastoma. Cell Chemical Biology, 2019, 26, 352-365.e7.	5.2	25

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73	<i>TRIM59</i> deficiency curtails breast cancer metastasis through SQSTM1-selective autophagic degradation of PDCD10. Autophagy, 2019, 15, 747-749.	9.1	25
74	Tet2 Inactivation Enhances the Antitumor Activity of Tumor-Infiltrating Lymphocytes. Cancer Research, 2021, 81, 1965-1976.	0.9	25
75	Myeloid loss of Beclin 1 promotes PD-L1hi precursor B cell lymphoma development. Journal of Clinical Investigation, 2019, 129, 5261-5277.	8.2	25
76	Optogenetic Control of Voltageâ€Gated Calcium Channels. Angewandte Chemie - International Edition, 2018, 57, 7019-7022.	13.8	24
77	Antibiotic treatment ameliorates Ten-eleven translocation 2 (TET2) loss-of-function associated hematological malignancies. Cancer Letters, 2019, 467, 1-8.	7.2	24
78	Optogenetics for transcriptional programming and genetic engineering. Trends in Genetics, 2022, 38, 1253-1270.	6.7	24
79	Fluorogenic Probe for the Human Ether-a-Go-Go-Related Gene Potassium Channel Imaging. Analytical Chemistry, 2015, 87, 2550-2554.	6.5	23
80	Optogenetic Control of Nonâ€Apoptotic Cell Death. Advanced Science, 2021, 8, 2100424.	11.2	23
81	Expression of chimeric antigen receptor therapy targets detected by single-cell sequencing of normal cells may contribute to off-tumor toxicity. Cancer Cell, 2021, 39, 1558-1559.	16.8	22
82	Calciomics: prediction and analysis of EF-hand calcium binding proteins by protein engineering. Science China Chemistry, 2010, 53, 52-60.	8.2	21
83	Engineered Split-TET2 Enzyme for Inducible Epigenetic Remodeling. Journal of the American Chemical Society, 2017, 139, 4659-4662.	13.7	19
84	Site-specific modification of calmodulin Ca2+ affinity tunes the skeletal muscle ryanodine receptor activation profile. Biochemical Journal, 2010, 432, 89-99.	3.7	18
85	Molecular Determinants for STIM1 Activation During Store- Operated Ca2+ Entry. Current Molecular Medicine, 2017, 17, 60-69.	1.3	18
86	New bioluminescent coelenterazine derivatives with various C-6 substitutions. Organic and Biomolecular Chemistry, 2017, 15, 7008-7018.	2.8	17
87	p53-dependent autophagic degradation of TET2 modulates cancer therapeutic resistance. Oncogene, 2019, 38, 1905-1919.	5.9	17
88	Optogenetic approaches to control Ca2+-modulated physiological processes. Current Opinion in Physiology, 2020, 17, 187-196.	1.8	17
89	Chronic alcohol drinking persistently suppresses thalamostriatal excitation of cholinergic neurons to impair cognitive flexibility. Journal of Clinical Investigation, 2022, 132, .	8.2	17
90	A cysteine-rich metal-binding domain from rubella virus non-structural protein is essential for viral protease activity and virus replication. Biochemical Journal, 2009, 417, 477-483.	3.7	15

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91	RPL32 Promotes Lung Cancer Progression by Facilitating p53 Degradation. Molecular Therapy - Nucleic Acids, 2020, 21, 75-85.	5.1	15
92	Discovery of Turn-On Fluorescent Probes for Detecting Bcl-2 Protein. Analytical Chemistry, 2019, 91, 5722-5728.	6.5	14
93	The STIM-Orai Pathway: Light-Operated Ca2+ Entry Through Engineered CRAC Channels. Advances in Experimental Medicine and Biology, 2017, 993, 117-138.	1.6	12
94	Tmem178 negatively regulates store-operated calcium entry in myeloid cells via association with STIM1. Journal of Autoimmunity, 2019, 101, 94-108.	6.5	12
95	Visible light excited ratiometric-GECIs for long-term in-cellulo monitoring of calcium signals. Cell Calcium, 2020, 87, 102165.	2.4	12
96	Design of Smart Antibody Mimetics with Photosensitive Switches. Advanced Biology, 2021, 5, e2000541.	2.5	12
97	Discovery of the First Environment-Sensitive Fluorescent Probe for GPR120 (FFA4) Imaging. ACS Medicinal Chemistry Letters, 2017, 8, 428-432.	2.8	11
98	Calcium-dependent Association of Calmodulin with the Rubella Virus Nonstructural Protease Domain. Journal of Biological Chemistry, 2010, 285, 8855-8868.	3.4	9
99	Quenching the firefly bioluminescence by various ions. Photochemical and Photobiological Sciences, 2016, 15, 244-249.	2.9	9
100	Intelligent cell-based therapies for cancer and autoimmune disorders. Current Opinion in Biotechnology, 2020, 66, 207-216.	6.6	8
101	Discovery of a series of 2-phenylnaphthalenes as firefly luciferase inhibitors. RSC Advances, 2015, 5, 63450-63457.	3.6	7
102	Structural Determinants for Light-Dependent Membrane Binding of a Photoswitchable Polybasic Domain. ACS Synthetic Biology, 2021, 10, 542-551.	3.8	7
103	Novel photoactivatable substrates for <i>Renilla</i> luciferase imaging <i>in vitro</i> and <i>in vivo</i> Organic and Biomolecular Chemistry, 2018, 16, 4789-4792.	2.8	6
104	Probing Ca2+-Binding Capability of Viral Proteins with the EF-Hand Motif by Grafting Approach. Methods in Molecular Biology, 2013, 963, 37-53.	0.9	6
105	Engineering Supramolecular Organizing Centers for Optogenetic Control of Innate Immune Responses. Advanced Biology, 2021, 5, e2000147.	2.5	6
106	Digitoxin Suppresses Store Operated Calcium Entry by Modulating Phosphorylation and the Pore Region of Orai1. Current Molecular Medicine, 2019, 18, 392-399.	1.3	5
107	Identification of a STIM1 Splicing Variant that Promotes Glioblastoma Growth. Advanced Science, 2022, 9, e2103940.	11.2	5
108	Optical Sensors and Actuators for Probing Proximity-Dependent Biotinylation in Living Cells. Frontiers in Cellular Neuroscience, 2022, 16, 801644.	3.7	5

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109	Novel intramolecular photoinduced electron transfer-based probe for the Human Ether-a-go-go-Related Gene (hERG) potassium channel. Analyst, The, 2015, 140, 8101-8108.	3.5	4
110	Expanding the Chemogenetic Toolbox by Circular Permutation. Journal of Molecular Biology, 2020, 432, 3127-3136.	4.2	4
111	Caffeineâ€Operated Synthetic Modules for Chemogenetic Control of Protein Activities by Life Style. Advanced Science, 2021, 8, 2002148.	11.2	4
112	A STIMulating journey into optogenetic engineering. Cell Calcium, 2020, 88, 102197.	2.4	3
113	Ten-Eleven Translocation Ablation Impairs Cardiac Differentiation of Mouse Embryonic Stem Cells. Stem Cells, 2022, 40, 260-272.	3.2	3
114	Aberrant DNA hydroxymethylation reshapes transcription factor binding in myeloid neoplasms. Clinical Epigenetics, 2022, 14, .	4.1	3
115	The Design and Implementation of a Rescue Terminal with Vital Signs Telemonitoring Based on Beidou 1 Navigation Satellite System. Telemedicine Journal and E-Health, 2011, 17, 76-79.	2.8	2
116	Integrated pipeline for inferring the evolutionary history of a gene family embedded in the species tree: a case study on the STIMATE gene family. BMC Bioinformatics, 2017, 18, 439.	2.6	2
117	Fluorescence-Based Ratiometric Measurement of CRAC Channel Activity in STIM-Orai-Overexpressing HEK-293 Cells. Methods in Molecular Biology, 2018, 1843, 17-39.	0.9	2
118	Genetically encoded tags for real time dissection of protein assembly in living cells. Chemical Science, 2018, 9, 5551-5555.	7.4	2
119	Optical control of protein delivery and partitioning in the nucleolus. Nucleic Acids Research, 2022, 50, e69-e69.	14.5	2
120	Redâ€shifted optogenetics comes to the spotlight. Clinical and Translational Medicine, 2022, 12, e807.	4.0	2
121	An Engineered Split-TET2 Enzyme for Chemical-inducible DNA Hydroxymethylation and Epigenetic Remodeling. Journal of Visualized Experiments, 2017, , .	0.3	1
122	Innenrücktitelbild: Optogenetic Control of Voltageâ€Gated Calcium Channels (Angew. Chem. 24/2018). Angewandte Chemie, 2018, 130, 7375-7375.	2.0	1
123	Optogenetic control of calcium influx in mammalian cells. Methods in Enzymology, 2021, 654, 255-270.	1.0	1
124	Cam Interaction and Binding Mode Study with Peptide from Intracellular Loop of Cx50. Biophysical Journal, 2010, 98, 94a.	0.5	0
125	Minimal Requirement for Store-Operated Calcium Entry: STIM1 Gates ORAI1 Channels in Vitro. Biophysical Journal, 2010, 98, 97a.	0.5	0
126	Mechanism of Activation of Calcium Channel Orail by its Regulatory Partner Stim1. Biophysical Journal, 2014, 106, 315a.	0.5	0

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127	Optogenetic Control of Voltageâ€Gated Calcium Channels. Angewandte Chemie, 2018, 130, 7137-7140.	2.0	O
128	Patch-Clamp Recording of the CRAC Channel Current in STIM-Orai Overexpressing Cells. Methods in Molecular Biology, 2018, 1843, 1-16.	0.9	0
129	Engineered Cross-Linking to Study the Pore Architecture of the CRAC Channel. Methods in Molecular Biology, 2018, 1843, 147-166.	0.9	O
130	Let there be light: a bright future for Ca2+ signaling. Science Bulletin, 2018, 63, 1029-1031.	9.0	0
131	Identification of A STIM1 Splicing Variant that Promotes Tumor Growth. Biophysical Journal, 2021, 120, 54a.	0.5	O
132	Dimming the donor to brighten up FRET-based biosensors. Cell Calcium, 2021, 99, 102474.	2.4	0
133	Membrane Transport Store-Operated ORAI Calcium Channel. , 2021, , 909-918.		O
134	Tet2 Deficiency in Macrophages Undermines Heart Repair after Infarction. Blood, 2018, 132, 2394-2394.	1.4	0
135	A Combination Strategy Targeting Enhancer Plasticity Exerts Synergistic Lethality Against Beti-Resistant Leukemia Cells. Blood, 2019, 134, 5053-5053.	1.4	O
136	How to Fluorescently Label the Potassium Channel: A Case in hERG. Current Medicinal Chemistry, 2020, 27, 3046-3054.	2.4	0
137	Tet2 Inactivation Enhances the Anti-Tumor Activity of Tumor-Infiltrating Lymphocytes (TILs) to Curtail Melanoma Growth. Blood, 2020, 136, 27-27.	1.4	O