

Yuzheng Zhao

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

2,706
citations

218381

26
h-index

197535

49
g-index

59
all docs

59
docs citations

59
times ranked

4184
citing authors

#	ARTICLE	IF	CITATIONS
1	SoNar, a Highly Responsive NAD ⁺ /NADH Sensor, Allows High-Throughput Metabolic Screening of Anti-tumor Agents. <i>Cell Metabolism</i> , 2015, 21, 777-789.	7.2	311
2	Genetically Encoded Fluorescent Sensors for Intracellular NADH Detection. <i>Cell Metabolism</i> , 2011, 14, 555-566.	7.2	247
3	Genetically encoded fluorescent sensors reveal dynamic regulation of NADPH metabolism. <i>Nature Methods</i> , 2017, 14, 720-728.	9.0	223
4	Visualizing RNA dynamics in live cells with bright and stable fluorescent RNAs. <i>Nature Biotechnology</i> , 2019, 37, 1287-1293.	9.4	206
5	<scp>SIRT</scp> 3â€dependent <scp>GOT</scp> 2 acetylation status affects the malateâ€aspartate <scp>NADH</scp> shuttle activity and pancreatic tumor growth. <i>EMBO Journal</i> , 2015, 34, 1110-1125.	3.5	152
6	A genome-wide positioning systems network algorithm for in silico drug repurposing. <i>Nature Communications</i> , 2019, 10, 3476.	5.8	134
7	In vivo monitoring of cellular energy metabolism using SoNar, a highly responsive sensor for NAD ⁺ /NADH redox state. <i>Nature Protocols</i> , 2016, 11, 1345-1359.	5.5	119
8	A redox mechanism underlying nucleolar stress sensing by nucleophosmin. <i>Nature Communications</i> , 2016, 7, 13599.	5.8	94
9	Illuminating NAD ⁺ Metabolism in Live Cells and In Vivo Using a Genetically Encoded Fluorescent Sensor. <i>Developmental Cell</i> , 2020, 53, 240-252.e7.	3.1	71
10	Analysis of redox landscapes and dynamics in living cells and in vivo using genetically encoded fluorescent sensors. <i>Nature Protocols</i> , 2018, 13, 2362-2386.	5.5	70
11	Metabolic Imaging Reveals a Unique Preference of Symmetric Cell Division and Homing of Leukemia-Initiating Cells in an Endosteal Niche. <i>Cell Metabolism</i> , 2019, 29, 950-965.e6.	7.2	49
12	A fine-tuning mechanism underlying self-control for autophagy: deSUMOylation of BECN1 by SENP3. <i>Autophagy</i> , 2020, 16, 975-990.	4.3	49
13	Fine-Tuning of PGC1 \pm Expression Regulates Cardiac Function and Longevity. <i>Circulation Research</i> , 2019, 125, 707-719.	2.0	47
14	Real-time and high-throughput analysis of mitochondrial metabolic states in living cells using genetically encoded NAD ⁺ /NADH sensors. <i>Free Radical Biology and Medicine</i> , 2016, 100, 43-52.	1.3	46
15	PPM1K Regulates Hematopoiesis and Leukemogenesis through CDC20-Mediated Ubiquitination of MEIS1 and p21. <i>Cell Reports</i> , 2018, 23, 1461-1475.	2.9	46
16	Metabolic remodelling during early mouse embryo development. <i>Nature Metabolism</i> , 2021, 3, 1372-1384.	5.1	45
17	A single-component light sensor system allows highly tunable and direct activation of gene expression in bacterial cells. <i>Nucleic Acids Research</i> , 2020, 48, e33-e33.	6.5	44
18	Bone marrow niche ATP levels determine leukemia-initiating cell activity via P2X7 in leukemic models. <i>Journal of Clinical Investigation</i> , 2021, 131, .	3.9	43

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19	Lighting Up Live-Cell and In Vivo Central Carbon Metabolism with Genetically Encoded Fluorescent Sensors. <i>Annual Review of Analytical Chemistry</i> , 2020, 13, 293-314.	2.8	41
20	Profiling metabolic states with genetically encoded fluorescent biosensors for NADH. <i>Current Opinion in Biotechnology</i> , 2015, 31, 86-92.	3.3	40
21	SIRT5 deficiency suppresses mitochondrial ATP production and promotes AMPK activation in response to energy stress. <i>PLoS ONE</i> , 2019, 14, e0211796.	1.1	40
22	Optogenetic control of RNA function and metabolism using engineered light-switchable RNA-binding proteins. <i>Nature Biotechnology</i> , 2022, 40, 779-786.	9.4	35
23	A genetically encoded toolkit for tracking live-cell histidine dynamics in space and time. <i>Scientific Reports</i> , 2017, 7, 43479.	1.6	34
24	Smad5 acts as an intracellular pH messenger and maintains bioenergetic homeostasis. <i>Cell Research</i> , 2017, 27, 1083-1099.	5.7	34
25	A Single-Component Optogenetic System Allows Stringent Switch of Gene Expression in Yeast Cells. <i>ACS Synthetic Biology</i> , 2018, 7, 2045-2053.	1.9	34
26	The alternative activity of nuclear PHGDH contributes to tumour growth under nutrient stress. <i>Nature Metabolism</i> , 2021, 3, 1357-1371.	5.1	32
27	Glucose monitoring in living cells with single fluorescent protein-based sensors. <i>RSC Advances</i> , 2018, 8, 2485-2489.	1.7	30
28	Colon-targeted delivery of tacrolimus using pH-responsive polymeric nanoparticles for murine colitis therapy. <i>International Journal of Pharmaceutics</i> , 2021, 606, 120836.	2.6	30
29	Spatiotemporally controllable diphtheria toxin expression using a light-switchable transgene system combining multifunctional nanoparticle delivery system for targeted melanoma therapy. <i>Journal of Controlled Release</i> , 2020, 319, 1-14.	4.8	25
30	Visualization of Nicotine Adenine Dinucleotide Redox Homeostasis with Genetically Encoded Fluorescent Sensors. <i>Antioxidants and Redox Signaling</i> , 2018, 28, 213-229.	2.5	24
31	Oxidative phosphorylation enhances the leukemogenic capacity and resistance to chemotherapy of B cell acute lymphoblastic leukemia. <i>Science Advances</i> , 2021, 7, .	4.7	24
32	Spatiotemporal Imaging of Cellular Energy Metabolism with Genetically-Encoded Fluorescent Sensors in Brain. <i>Neuroscience Bulletin</i> , 2018, 34, 875-886.	1.5	19
33	Monitoring cellular redox state under hypoxia using a fluorescent sensor based on eel fluorescent protein. <i>Free Radical Biology and Medicine</i> , 2018, 120, 255-265.	1.3	19
34	Light-induced protein degradation in human-derived cells. <i>Biochemical and Biophysical Research Communications</i> , 2017, 487, 241-246.	1.0	18
35	Using Fractional Intensities of Time-resolved Fluorescence to Sensitive Quantify NADH/NAD ⁺ with Genetically Encoded Fluorescent Biosensors. <i>Scientific Reports</i> , 2017, 7, 4209.	1.6	18
36	Ultrafast internal conversion dynamics of bilirubin bound to UnaG and its N57A mutant. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 2365-2371.	1.3	17

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37	Cloning and Expression of a Novel Leucine Dehydrogenase: Characterization and L-tert-Leucine Production. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 186.	2.0	17
38	A combination of LightOn gene expression system and tumor microenvironment-responsive nanoparticle delivery system for targeted breast cancer therapy. <i>Acta Pharmaceutica Sinica B</i> , 2020, 10, 1741-1753.	5.7	17
39	A synthetic BRET-based optogenetic device for pulsatile transgene expression enabling glucose homeostasis in mice. <i>Nature Communications</i> , 2021, 12, 615.	5.8	16
40	Association of Human Whole Blood NAD ⁺ Contents With Aging. <i>Frontiers in Endocrinology</i> , 2022, 13, 829658.	1.5	14
41	Real-Time Assessment of the Metabolic Profile of Living Cells with Genetically Encoded NADH Sensors. <i>Methods in Enzymology</i> , 2014, 542, 349-367.	0.4	13
42	MDH1-mediated malate-aspartate NADH shuttle maintains the activity levels of fetal liver hematopoietic stem cells. <i>Blood</i> , 2020, 136, 553-571.	0.6	13
43	Organelle-Specific Nitric Oxide Detection in Living Cells via HaloTag Protein Labeling. <i>PLoS ONE</i> , 2015, 10, e0123986.	1.1	12
44	A Negative Regulator of Carotenogenesis in <i>Blakeslea trispora</i> . <i>Applied and Environmental Microbiology</i> , 2020, 86, .	1.4	10
45	Imaging the Redox States of Live Cells with the Time-Resolved Fluorescence of Genetically Encoded Biosensors. <i>Analytical Chemistry</i> , 2019, 91, 3869-3876.	3.2	9
46	<i>Blakeslea trispora</i> Photoreceptors: Identification and Functional Analysis. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	1.4	7
47	Discovery of Natural Products Targeting NQO1 via an Approach Combining Network-Based Inference and Identification of Privileged Substructures. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 2486-2498.	2.5	7
48	A ROS-responsive fluorescent probe detecting experimental colitis by functional polymeric nanoparticles. <i>International Journal of Pharmaceutics</i> , 2021, 609, 121125.	2.6	7
49	NADPH metabolism determines the leukemogenic capacity and drug resistance of AML cells. <i>Cell Reports</i> , 2022, 39, 110607.	2.9	7
50	Frex and FrexH. <i>Bioengineered</i> , 2012, 3, 183-190.	1.4	6
51	Safe and Efficacious Diphtheria Toxin-Based Treatment for Melanoma: Combination of a Light-On Gene-Expression System and Nanotechnology. <i>Molecular Pharmaceutics</i> , 2020, 17, 301-315.	2.3	6
52	Sensitive detection via the time-resolved fluorescence of circularly permuted yellow fluorescent protein biosensors. <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128614.	4.0	6
53	A redox probe screens MTHFD1 as a determinant of gemcitabine chemoresistance in cholangiocarcinoma. <i>Cell Death Discovery</i> , 2021, 7, 89.	2.0	5
54	Light-switchable diphtherin transgene system combined with losartan for triple negative breast cancer therapy based on nano drug delivery system. <i>International Journal of Pharmaceutics</i> , 2022, 618, 121613.	2.6	5

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55	Association between NAD ⁺ levels and anaemia among women in community-based study. <i>Journal of Cellular and Molecular Medicine</i> , 2022, 26, 2698-2705.	1.6	5
56	Monitoring NAD(H) and NADP(H) dynamics during organismal development with genetically encoded fluorescent biosensors. <i>Cell Regeneration</i> , 2022, 11, 5.	1.1	4
57	Spatiotemporal monitoring of NAD ⁺ metabolism with fluorescent biosensors. <i>Mechanisms of Ageing and Development</i> , 2022, 204, 111657.	2.2	4
58	Multicoloured fluorescent indicators for live-cell and in vivo imaging of inorganic mercury dynamics. <i>Free Radical Biology and Medicine</i> , 2018, 121, 26-37.	1.3	2