# Yuzheng Zhao

## List of Publications by Year in descending order



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|---|---|---|---|
| 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 | Optogenetic control of RNA function and metabolism using engineered light-switchable RNA-binding proteins. Nature Biotechnology, 2022, 40, 779-786. | 9.4 | 35 |
| 2 | Monitoring NAD(H) and NADP(H) dynamics during organismal development with genetically encoded fluorescent biosensors. Cell Regeneration, 2022, 11, 5. | 1.1 | 4 |
| 3 | Association of Human Whole Blood NAD+ Contents With Aging. Frontiers in Endocrinology, 2022, 13, 829658. | 1.5 | 14 |
| 4 | Light-switchable diphtherin transgene system combined with losartan for triple negtative breast cancer therapy based on nano drug delivery system. International Journal of Pharmaceutics, 2022, 618, 121613. | 2.6 | 5 |
| 5 | Association between NAD<sup>+</sup> levels and anaemia among women in communityâ€based study. Journal of Cellular and Molecular Medicine, 2022, 26, 2698-2705. | 1.6 | 5 |
| 6 | NADPH metabolism determines the leukemogenic capacity and drug resistance of AML cells. Cell Reports, 2022, 39, 110607. | 2.9 | 7 |
| 7 | Spatiotemporal monitoring of NAD+ metabolism with fluorescent biosensors. Mechanisms of Ageing and Development, 2022, 204, 111657. | 2.2 | 4 |
| 8 | A synthetic BRET-based optogenetic device for pulsatile transgene expression enabling glucose homeostasis in mice. Nature Communications, 2021, 12, 615. | 5.8 | 16 |
| 9 | Bone marrow niche ATP levels determine leukemia-initiating cell activity via P2X7 in leukemic models. Journal of Clinical Investigation, 2021, 131, . | 3.9 | 43 |
| 10 | Oxidative phosphorylation enhances the leukemogenic capacity and resistance to chemotherapy of B cell acute lymphoblastic leukemia. Science Advances, 2021, 7, . | 4.7 | 24 |
| 11 | A redox probe screens MTHFD1 as a determinant of gemcitabine chemoresistance in cholangiocarcinoma. Cell Death Discovery, 2021, 7, 89. | 2.0 | 5 |
| 12 | Discovery of Natural Products Targeting NQO1 via an Approach Combining Network-Based Inference and Identification of Privileged Substructures. Journal of Chemical Information and Modeling, 2021, 61, 2486-2498. | 2.5 | 7 |
| 13 | A ROS-responsive fluorescent probe detecting experimental colitis by functional polymeric nanoparticles. International Journal of Pharmaceutics, 2021, 609, 121125. | 2.6 | 7 |
| 14 | Colon-targeted delivery of tacrolimus using pH-responsive polymeric nanoparticles for murine colitis therapy. International Journal of Pharmaceutics, 2021, 606, 120836. | 2.6 | 30 |
| 15 | The alternative activity of nuclear PHGDH contributes to tumour growth under nutrient stress. Nature Metabolism, 2021, 3, 1357-1371. | 5.1 | 32 |
| 16 | Metabolic remodelling during early mouse embryo development. Nature Metabolism, 2021, 3, 1372-1384. | 5.1 | 45 |
| 17 | A fine-tuning mechanism underlying self-control for autophagy: deSUMOylation of BECN1 by SENP3. Autophagy, 2020, 16, 975-990. | 4.3 | 49 |
| 18 | Spatiotemporally controllable diphtheria toxin expression using a light-switchable transgene system combining multifunctional nanoparticle delivery system for targeted melanoma therapy. Journal of Controlled Release, 2020, 319, 1-14. | 4.8 | 25 |

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|---|---|---|---|
| 19 | Safe and Efficacious Diphtheria Toxin-Based Treatment for Melanoma: Combination of a Light-On Gene-Expression System and Nanotechnology. Molecular Pharmaceutics, 2020, 17, 301-315. | 2.3 | 6 |
| 20 | Sensitive detection via the time-resolved fluorescence of circularly permuted yellow fluorescent protein biosensors. Sensors and Actuators B: Chemical, 2020, 321, 128614. | 4.0 | 6 |
| 21 | MDH1-mediated malate-aspartate NADH shuttle maintains the activity levels of fetal liver hematopoietic stem cells. Blood, 2020, 136, 553-571. | 0.6 | 13 |
| 22 | Illuminating NAD+ Metabolism in Live Cells and InÂVivo Using a Genetically Encoded Fluorescent Sensor. Developmental Cell, 2020, 53, 240-252.e7. | 3.1 | 71 |
| 23 | Lighting Up Live-Cell and In Vivo Central Carbon Metabolism with Genetically Encoded Fluorescent Sensors. Annual Review of Analytical Chemistry, 2020, 13, 293-314. | 2.8 | 41 |
| 24 | A single-component light sensor system allows highly tunable and direct activation of gene expression in bacterial cells. Nucleic Acids Research, 2020, 48, e33-e33. | 6.5 | 44 |
| 25 | Cloning and Expression of a Novel Leucine Dehydrogenase: Characterization and L-tert-Leucine Production. Frontiers in Bioengineering and Biotechnology, 2020, 8, 186. | 2.0 | 17 |
| 26 | A combination of LightOn gene expression system and tumor microenvironment-responsive nanoparticle delivery system for targeted breast cancer therapy. Acta Pharmaceutica Sinica B, 2020, 10, 1741-1753. | 5.7 | 17 |
| 27 | Blakeslea trispora Photoreceptors: Identification and Functional Analysis. Applied and Environmental Microbiology, 2020, 86, . | 1.4 | 7 |
| 28 | A Negative Regulator of Carotenogenesis in Blakeslea trispora. Applied and Environmental Microbiology, 2020, 86, . | 1.4 | 10 |
| 29 | Fine-Tuning of PGC1Î± Expression Regulates Cardiac Function and Longevity. Circulation Research, 2019, 125, 707-719. | 2.0 | 47 |
| 30 | A genome-wide positioning systems network algorithm for in silico drug repurposing. Nature Communications, 2019, 10, 3476. | 5.8 | 134 |
| 31 | Ultrafast internal conversion dynamics of bilirubin bound to UnaG and its N57A mutant. Physical Chemistry Chemical Physics, 2019, 21, 2365-2371. | 1.3 | 17 |
| 32 | SIRT5 deficiency suppresses mitochondrial ATP production and promotes AMPK activation in response to energy stress. PLoS ONE, 2019, 14, e0211796. | 1.1 | 40 |
| 33 | Imaging the Redox States of Live Cells with the Time-Resolved Fluorescence of Genetically Encoded Biosensors. Analytical Chemistry, 2019, 91, 3869-3876. | 3.2 | 9 |
| 34 | Visualizing RNA dynamics in live cells with bright and stable fluorescent RNAs. Nature Biotechnology, 2019, 37, 1287-1293. | 9.4 | 206 |
| 35 | Metabolic Imaging Reveals a Unique Preference of Symmetric Cell Division and Homing of Leukemia-Initiating Cells in an Endosteal Niche. Cell Metabolism, 2019, 29, 950-965.e6. | 7.2 | 49 |
| 36 | Spatiotemporal Imaging of Cellular Energy Metabolism with Genetically-Encoded Fluorescent Sensors in Brain. Neuroscience Bulletin, 2018, 34, 875-886. | 1.5 | 19 |

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|---|---|---|---|
| 37 | Multicoloured fluorescent indicators for live-cell and in vivo imaging of inorganic mercury dynamics. Free Radical Biology and Medicine, 2018, 121, 26-37. | 1.3 | 2 |
| 38 | Glucose monitoring in living cells with single fluorescent protein-based sensors. RSC Advances, 2018, 8, 2485-2489. | 1.7 | 30 |
| 39 | PPM1K Regulates Hematopoiesis and Leukemogenesis through CDC20-Mediated Ubiquitination of MEIS1 and p21. Cell Reports, 2018, 23, 1461-1475. | 2.9 | 46 |
| 40 | Monitoring cellular redox state under hypoxia using a fluorescent sensor based on eel fluorescent protein. Free Radical Biology and Medicine, 2018, 120, 255-265. | 1.3 | 19 |
| 41 | Visualization of Nicotine Adenine Dinucleotide Redox Homeostasis with Genetically Encoded Fluorescent Sensors. Antioxidants and Redox Signaling, 2018, 28, 213-229. | 2.5 | 24 |
| 42 | Analysis of redox landscapes and dynamics in living cells and in vivo using genetically encoded fluorescent sensors. Nature Protocols, 2018, 13, 2362-2386. | 5.5 | 70 |
| 43 | A Single-Component Optogenetic System Allows Stringent Switch of Gene Expression in Yeast Cells. ACS Synthetic Biology, 2018, 7, 2045-2053. | 1.9 | 34 |
| 44 | A genetically encoded toolkit for tracking live-cell histidine dynamics in space and time. Scientific Reports, 2017, 7, 43479. | 1.6 | 34 |
| 45 | Light-induced protein degradation in human-derived cells. Biochemical and Biophysical Research Communications, 2017, 487, 241-246. | 1.0 | 18 |
| 46 | Smad5 acts as an intracellular pH messenger and maintains bioenergetic homeostasis. Cell Research, 2017, 27, 1083-1099. | 5.7 | 34 |
| 47 | Using Fractional Intensities of Time-resolved Fluorescence to Sensitively Quantify NADH/NAD+ with Genetically Encoded Fluorescent Biosensors. Scientific Reports, 2017, 7, 4209. | 1.6 | 18 |
| 48 | Genetically encoded fluorescent sensors reveal dynamic regulation of NADPH metabolism. Nature Methods, 2017, 14, 720-728. | 9.0 | 223 |
| 49 | In vivo monitoring of cellular energy metabolism using SoNar, a highly responsive sensor for NAD+/NADH redox state. Nature Protocols, 2016, 11, 1345-1359. | 5.5 | 119 |
| 50 | A redox mechanism underlying nucleolar stress sensing by nucleophosmin. Nature Communications, 2016, 7, 13599. | 5.8 | 94 |
| 51 | Real-time and high-throughput analysis of mitochondrial metabolic states in living cells using genetically encoded NAD+/NADH sensors. Free Radical Biology and Medicine, 2016, 100, 43-52. | 1.3 | 46 |
| 52 | <scp>SIRT</scp> 3â€dependent <scp>GOT</scp> 2 acetylation status affects the malateâ€“aspartate <scp>NADH</scp> shuttle activity and pancreatic tumor growth. EMBO Journal, 2015, 34, 1110-1125. | 3.5 | 152 |
| 53 | SoNar, a Highly Responsive NAD+/NADH Sensor, Allows High-Throughput Metabolic Screening of Anti-tumor Agents. Cell Metabolism, 2015, 21, 777-789. | 7.2 | 311 |
| 54 | Profiling metabolic states with genetically encoded fluorescent biosensors for NADH. Current Opinion in Biotechnology, 2015, 31, 86-92. | 3.3 | 40 |

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|---|---|---|---|
| 55 | Organelle-Specific Nitric Oxide Detection in Living Cells via HaloTag Protein Labeling. PLoS ONE, 2015, 10, e0123986. | 1.1 | 12 |
| 56 | Real-Time Assessment of the Metabolic Profile of Living Cells with Genetically Encoded NADH Sensors. Methods in Enzymology, 2014, 542, 349-367. | 0.4 | 13 |
| 57 | Frex and FrexH. Bioengineered, 2012, 3, 183-190. | 1.4 | 6 |
| 58 | Genetically Encoded Fluorescent Sensors for Intracellular NADH Detection. Cell Metabolism, 2011, 14, 555-566. | 7.2 | 247 |