

Katharine A White

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

1,010
citations

687363

13
h-index

752698

20
g-index

27
all docs

27
docs citations

27
times ranked

1508
citing authors

#	ARTICLE	IF	CITATIONS
1	A fluorophore ligase for site-specific protein labeling inside living cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10914-10919.	7.1	268
2	Cancer cell behaviors mediated by dysregulated pH dynamics at a glance. <i>Journal of Cell Science</i> , 2017, 130, 663-669.	2.0	248
3	Yeast Display Evolution of a Kinetically Efficient 13-Amino Acid Substrate for Lipoic Acid Ligase. <i>Journal of the American Chemical Society</i> , 2009, 131, 16430-16438.	13.7	94
4	Site-specific protein labeling using PRIME and chelation-assisted click chemistry. <i>Nature Protocols</i> , 2013, 8, 1620-1634.	12.0	84
5	Cancer-associated arginine-to-histidine mutations confer a gain in pH sensing to mutant proteins. <i>Science Signaling</i> , 2017, 10, .	3.6	54
6	Imaging Trans-Cellular Neurexin-Neurologin Interactions by Enzymatic Probe Ligation. <i>PLoS ONE</i> , 2013, 8, e52823.	2.5	37
7	β -Catenin is a pH sensor with decreased stability at higher intracellular pH. <i>Journal of Cell Biology</i> , 2018, 217, 3965-3976.	5.2	32
8	A Histidine pH sensor regulates activation of the Ras-specific guanine nucleotide exchange factor RasGRP1. <i>ELife</i> , 2017, 6, .	6.0	32
9	Intracellular pH Regulates Cancer and Stem Cell Behaviors: A Protein Dynamics Perspective. <i>Frontiers in Oncology</i> , 2020, 10, 1401.	2.8	27
10	Prominent features of the amino acid mutation landscape in cancer. <i>PLoS ONE</i> , 2017, 12, e0183273.	2.5	26
11	A Histidine Cluster in the Cytoplasmic Domain of the Na-H Exchanger NHE1 Confers pH-sensitive Phospholipid Binding and Regulates Transporter Activity. <i>Journal of Biological Chemistry</i> , 2016, 291, 24096-24104.	3.4	25
12	Cancer and pH Dynamics: Transcriptional Regulation, Proteostasis, and the Need for New Molecular Tools. <i>Cancers</i> , 2020, 12, 2760.	3.7	20
13	Intracellular pH dynamics and charge-changing somatic mutations in cancer. <i>Cancer and Metastasis Reviews</i> , 2019, 38, 17-24.	5.9	19
14	An Optogenetic Tool to Raise Intracellular pH in Single Cells and Drive Localized Membrane Dynamics. <i>Journal of the American Chemical Society</i> , 2021, 143, 18877-18887.	13.7	17
15	Directed Evolution of a Probe Ligase with Activity in the Secretory Pathway and Application to Imaging Intercellular Protein-Protein Interactions. <i>Biochemistry</i> , 2013, 52, 3728-3739.	2.5	9
16	An acidic residue buried in the dimer interface of isocitrate dehydrogenase 1 (IDH1) helps regulate catalysis and pH sensitivity. <i>Biochemical Journal</i> , 2020, 477, 2999-3018.	3.7	8
17	Oncogenic β -catenin mutations evade pH-regulated degradation. <i>Molecular and Cellular Oncology</i> , 2019, 6, 1554470.	0.7	2
18	Low pH Facilitates Heterodimerization of Mutant Isocitrate Dehydrogenase IDH1-R132H and Promotes Production of 2-Hydroxyglutarate. <i>Biochemistry</i> , 2021, 60, 1983-1994.	2.5	2

#	ARTICLE	IF	CITATIONS
19	Charting a New Frontier Integrating Mathematical Modeling in Complex Biological Systems from Molecules to Ecosystems. Integrative and Comparative Biology, 2021, , .	2.0	2
20	New tools for spatiotemporally manipulating and measuring pH in living cells. Biophysical Journal, 2022, 121, 412a.	0.5	0