Anna Kashina

List of Publications by Year
in descending order

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49 papers	2,407 citations	218677 26 h-index	214800 47 g-index
56 all docs	56 docs citations	56 times ranked	2302 citing authors

#	Article	IF	Citations
1	Protein Posttranslational Signatures Identified in COVID-19 Patient Plasma. Frontiers in Cell and Developmental Biology, 2022, 10, 807149.	3.7	15
2	Î±-Synuclein arginylation in the human brain. Translational Neurodegeneration, 2022, 11, 20.	8.0	8
3	Availability of Arg, but Not tRNA, Is a Rate-Limiting Factor for Intracellular Arginylation. International Journal of Molecular Sciences, 2022, 23, 314.	4.1	0
4	Cysteine-Based Mimic of Arginylation Reproduces Neuroprotective Effects of the Authentic Post-Translational Modification on Î±-Synuclein. Journal of the American Chemical Society, 2022, 144, 7911-7918.	13.7	4
5	Arginylâ€tRNAâ€protein transferase 1 (ATE1) promotes melanoma cell growth and migration. FEBS Letters, 2022, 596, 1468-1480.	2.8	1
6	A new mechanism of fibronectin fibril assembly revealed by live imaging and super-resolution microscopy. Journal of Cell Science, 2022, 135, .	2.0	8
7	Posttranslational modifications of the cytoskeleton. Cytoskeleton, 2021, 78, 142-173.	2.0	22
8	Arginyltransferase (Ate1) regulates the RGS7 protein level and the sensitivity of light-evoked ON-bipolar responses. Scientific Reports, 2021, 11, 9376.	3.3	6
9	Different translation dynamics of Î²- and Î³-actin regulates cell migration. ELife, 2021, 10, .	6.0	28
10	Post-translational Modifications of the Protein Termini. Frontiers in Cell and Developmental Biology, 2021, 9, 719590.	3.7	35
11	Arginylation Regulates G-protein Signaling in the Retina. Frontiers in Cell and Developmental Biology, 2021, 9, 807345.	3.7	2
12	Effects of Glutamate Arginylation on Î±-Synuclein: Studying an Unusual Post-Translational Modification through Semisynthesis. Journal of the American Chemical Society, 2020, 142, 21786-21798.	13.7	16
13	tRNAArg-Derived Fragments Can Serve as Arginine Donors for Protein Arginylation. Cell Chemical Biology, 2020, 27, 839-849.e4.	5.2	19
14	Regulation of actin isoforms in cellular and developmental processes. Seminars in Cell and Developmental Biology, 2020, 102, 113-121.	5.0	35
15	Hijacking tRNAs From Translation: Regulatory Functions of tRNAs in Mammalian Cell Physiology. Frontiers in Molecular Biosciences, 2020, 7, 610617.	3.5	35
16	Purification and Use of tRNA for Enzymatic Post-translational Addition of Amino Acids to Proteins. STAR Protocols, 2020, 1, 100207.	1.2	11
17	Biochemical analysis of protein arginylation. Methods in Enzymology, 2019, 626, 89-113.	1.0	6
18	Protein arginylation of cytoskeletal proteins in the muscle: modifications modifying function. American Journal of Physiology - Cell Physiology, 2019, 316, C668-C677.	4.6	8

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19	Quantification of intracellular N-terminal Î²-actin arginylation. Scientific Reports, 2019, 9, 16669.	3.3	18
20	Rapid and dynamic arginylation of the leading edge Î²â€actin is required for cell migration. Traffic, 2018, 19, 263-272.	2.7	32
21	Target site specificity and in vivo complexity of the mammalian arginylome. Scientific Reports, 2018, 8, 16177.	3.3	25
22	Posttranscriptional and Posttranslational Regulation of Actin. Anatomical Record, 2018, 301, 1991-1998.	1.4	9
23	The makings of the â€˜actin code': regulation of actin's biological function at the amino acid and nucleotide level. Journal of Cell Science, 2018, 131, .	2.0	55
24	Mitochondrial dysfunction and mitochondrial dynamics-The cancer connection. Biochimica Et Biophysica Acta - Bioenergetics, 2017, 1858, 602-614.	1.0	276
25	Arginyltransferase ATE1 is targeted to the neuronal growth cones and regulates neurite outgrowth during brain development. Developmental Biology, 2017, 430, 41-51.	2.0	29
26	Protein arginylation targets alpha synuclein, facilitates normal brain health, and prevents neurodegeneration. Scientific Reports, 2017, 7, 11323.	3.3	30
27	Diverse functions of homologous actin isoforms are defined by their nucleotide, rather than their amino acid sequence. ELife, 2017, 6, .	6.0	44
28	Î²III Spectrin Is Necessary for Formation of the Constricted Neck of Dendritic Spines and Regulation of Synaptic Activity in Neurons. Journal of Neuroscience, 2017, 37, 6442-6459.	3.6	43
29	Arginylation regulates purine nucleotide biosynthesis by enhancing the activity of phosphoribosyl pyrophosphate synthase. Nature Communications, 2015, 6, 7517.	12.8	36
30	Protein Arginylation, a Global Biological Regulator that Targets Actin Cytoskeleton and the Muscle. Anatomical Record, 2014, 297, 1630-1636.	1.4	25
31	Arginylation of Myosin Heavy Chain Regulates Skeletal Muscle Strength. Cell Reports, 2014, 8, 470-476.	6.4	31
32	Arginyltransferase ATE1 Catalyzes Midchain Arginylation of Proteins at Side Chain Carboxylates InÂVivo. Chemistry and Biology, 2014, 21, 331-337.	6.0	72
33	Post-translational modification and regulation of actin. Current Opinion in Cell Biology, 2013, 25, 30-38.	5.4	187
34	Arginylation regulates myofibrils to maintain heart function and prevent dilated cardiomyopathy. Journal of Molecular and Cellular Cardiology, 2012, 53, 333-341.	1.9	43
35	Arginylation-dependent regulation of a proteolytic product of talin is essential for cellâ€“cell adhesion. Journal of Cell Biology, 2012, 197, 819-836.	5.2	56
36	Posttranslational arginylation as a global biological regulator. Developmental Biology, 2011, 358, 1-8.	2.0	79

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37	Arginylation and Methylation Double Up to Regulate Nuclear Proteins and Nuclear Architecture InÂVivo. Chemistry and Biology, 2011, 18, 1369-1378.	6.0	37
38	Arginyltransferase Is an ATP-Independent Self-Regulating Enzyme that Forms Distinct Functional Complexes InÂVivo. Chemistry and Biology, 2011, 18, 121-130.	6.0	71
39	Arginylation Regulates Intracellular Actin Polymer Level by Modulating Actin Properties and Binding of Capping and Severing Proteins. Molecular Biology of the Cell, 2010, 21, 1350-1361.	2.1	86
40	Differential Arginylation of Actin Isoforms Is Regulated by Coding Sequenceâ€“Dependent Degradation. Science, 2010, 329, 1534-1537.	12.6	179
41	Arginylation-Dependent Neural Crest Cell Migration Is Essential for Mouse Development. PLoS Genetics, 2010, 6, e1000878.	3.5	61
42	Identification of N-terminally arginylated proteins and peptides by mass spectrometry. Nature Protocols, 2009, 4, 325-332.	12.0	52
43	Conditional Tek Promoter-Driven Deletion of Arginyltransferase in the Germ Line Causes Defects in Gametogenesis and Early Embryonic Lethality in Mice. PLoS ONE, 2009, 4, e7734.	2.5	30
44	Arginyltransferase regulates alpha cardiac actin function, myofibril formation and contractility during heart development. Development (Cambridge), 2008, 135, 3881-3889.	2.5	58
45	Global Analysis of Posttranslational Protein Arginylation. PLoS Biology, 2007, 5, e258.	5.6	132
46	Arginylation of Â-Actin Regulates Actin Cytoskeleton and Cell Motility. Science, 2006, 313, 192-196.	12.6	238
47	Molecular dissection of arginyltransferases guided by similarity to bacterial peptidoglycan synthases. EMBO Reports, 2006, 7, 800-805.	4.5	30
48	Intracellular organelle transport: few motors, many signals. Trends in Cell Biology, 2005, 15, 396-398.	7.9	13
49	Identification of mammalian arginyltransferases that modify a specific subset of protein substrates. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 10123-10128.	7.1	65