Justin W Taraska

List of Publications by Year
in descending order

59 papers	2,927 citations	218677 26 h-index	189892 50 g-index
77 all docs	77 docs citations	77 times ranked	3817 citing authors

#	Article	IF	Citations
1	Secretory granules are recaptured largely intact after stimulated exocytosis in cultured endocrine cells. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 2070-2075.	7.1	351
2	Imaging proteins inside cells with fluorescent tags. Trends in Biotechnology, 2012, 30, 8-16.	9.3	254
3	Endocytic proteins are partitioned at the edge of the clathrin lattice in mammalian cells. Nature Cell Biology, 2017, 19, 352-361.	10.3	176
4	Recapture after exocytosis causes differential retention of protein in granules of bovine chromaffin cells. Journal of Physiology, 2004, 560, 413-428.	2.9	152
5	Mapping the structure and conformational movements of proteins with transition metal ion FRET. Nature Methods, 2009, 6, 532-537.	19.0	152
6	Exosomes Released from Breast Cancer Carcinomas Stimulate Cell Movement. PLoS ONE, 2015, 10, e0117495.	2.5	139
7	Correlative super-resolution fluorescence and metal-replica transmission electron microscopy. Nature Methods, 2014, 11, 305-308.	19.0	123
8	Bilayers merge even when exocytosis is transient. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 8780-8785.	7.1	110
9	Clathrin-adaptor ratio and membrane tension regulate the flat-to-curved transition of the clathrin coat during endocytosis. Nature Communications, 2018, 9, 1109.	12.8	109
10	Membrane bending occurs at all stages of clathrin-coat assembly and defines endocytic dynamics. Nature Communications, 2018, 9, 419.	12.8	82
11	Cryo-EM of the dynamin polymer assembled on lipid membrane. Nature, 2018, 560, 258-262.	27.8	79
12	Short-distance probes for protein backbone structure based on energy transfer between bimane and transition metal ions. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 16227-16232.	7.1	77
13	Semisynthetic fluorescent pH sensors for imaging exocytosis and endocytosis. Nature Communications, 2017, 8, 1412.	12.8	77
14	Fluorescence Applications in Molecular Neurobiology. Neuron, 2010, 66, 170-189.	8.1	76
15	A-kinase-anchoring Protein AKAP95 Is Targeted to the Nuclear Matrix and Associates with p68 RNA Helicase. Journal of Biological Chemistry, 2001, 276, 17448-17454.	3.4	70
16	Diverse protocols for correlative super-resolution fluorescence imaging and electron microscopy of chemically fixed samples. Nature Protocols, 2017, 12, 916-946.	12.0	66
17	From Flat to Curved Clathrin: Controlling a Plastic Ratchet. Trends in Cell Biology, 2019, 29, 241-256.	7.9	64
18	Structural dynamics in the gating ring of cyclic nucleotideâ€“gated ion channels. Nature Structural and Molecular Biology, 2007, 14, 854-860.	8.2	57

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19	Single-shot super-resolution total internal reflection fluorescence microscopy. Nature Methods, 2018, 15, 425-428.	19.0	57
20	Genome-edited human stem cells expressing fluorescently labeled endocytic markers allow quantitative analysis of clathrin-mediated endocytosis during differentiation. Journal of Cell Biology, 2018, 217, 3301-3311.	5.2	55
21	Imaging the post-fusion release and capture of a vesicle membrane protein. Nature Communications, 2012, 3, 1154.	12.8	47
22	The structure and spontaneous curvature of clathrin lattices at the plasma membrane. Developmental Cell, 2021, 56, 1131-1146.e3.	7.0	44
23	Imaging the recruitment and loss of proteins and lipids at single sites of calcium-triggered exocytosis. Molecular Biology of the Cell, 2016, 27, 2423-2434.	2.1	43
24	Energy and Dynamics of Caveolae Trafficking. Frontiers in Cell and Developmental Biology, 2020, 8, 614472.	3.7	40
25	Mapping membrane protein structure with fluorescence. Current Opinion in Structural Biology, 2012, 22, 507-513.	5.7	31
26	Accurate High-Throughput Structure Mapping and Prediction with Transition Metal Ion FRET. Structure, 2013, 21, 9-19.	3.3	31
27	Regulation of insulin exocytosis by calcium-dependent protein kinase C in beta cells. Cell Calcium, 2017, 67, 1-10.	2.4	30
28	Correlative Fluorescence Super-Resolution Localization Microscopy and Platinum Replica EM on Unroofed Cells. Methods in Molecular Biology, 2017, 1663, 219-230.	0.9	29
29	The Prototypical H+/Galactose Symporter GalP Assembles into Functional Trimers. Journal of Molecular Biology, 2010, 396, 593-601.	4.2	27
30	Systematic spatial mapping of proteins at exocytic and endocytic structures. Molecular Biology of the Cell, 2014, 25, 2084-2093.	2.1	27
31	A marginal band of microtubules transports and organizes mitochondria in retinal bipolar synaptic terminals. Journal of General Physiology, 2015, 146, 109-117.	1.9	23
32	An Engineered Palette of Metal Ion Quenchable Fluorescent Proteins. PLoS ONE, 2014, 9, e95808.	2.5	23
33	Sterols lower energetic barriers of membrane bending and fission necessary for efficient clathrin-mediated endocytosis. Cell Reports, 2021, 37, 110008.	6.4	20
34	Local protein dynamics during microvesicle exocytosis in neuroendocrine cells. Molecular Biology of the Cell, 2018, 29, 1891-1903.	2.1	18
35	Structurally distinct endocytic pathways for B cell receptors in B lymphocytes. Molecular Biology of the Cell, 2020, 31, 2826-2840.	2.1	15
36	The role of molecular diffusion within dendritic spines in synaptic function. Journal of General Physiology, 2021, 153, .	1.9	15

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37	Dual clathrin and integrin signaling systems regulate growth factor receptor activation. Nature Communications, 2022, 13, 905.	12.8	15
38	A primer on resolving the nanoscale structure of the plasma membrane with light and electron microscopy. Journal of General Physiology, 2019, 151, 974-985.	1.9	12
39	The nanoscale molecular morphology of docked exocytic dense-core vesicles in neuroendocrine cells. Nature Communications, 2021, 12, 3970.	12.8	12
40	Eden growth models for flat clathrin lattices with vacancies. New Journal of Physics, 2020, 22, 073043.	2.9	11
41	Tsg101 regulates PI(4,5)P2/Ca2+ signaling for HIV-1 Gag assembly. Frontiers in Microbiology, 2014, 5, 234.	3.5	10
42	Spatiotemporal organization and protein dynamics involved in regulated exocytosis of MMP-9 in breast cancer cells. Journal of General Physiology, 2019, 151, 1386-1403.	1.9	10
43	Find your coat: Using correlative light and electron microscopy to study intracellular protein coats. Current Opinion in Cell Biology, 2021, 71, 21-28.	5.4	9
44	Cyclic Nucleotide-Regulated Ion Channels: Spotlight on Symmetry. Structure, 2007, 15, 1023-1024.	3.3	8
45	Clathrin-mediated endocytosis cooperates with bulk endocytosis to generate vesicles. IScience, 2022, 25, 103809.	4.1	7
46	Two-Color Total Internal Reflection Fluorescence Microscopy of Exocytosis in Endocrine Cells. Methods in Molecular Biology, 2017, 1563, 151-165.	0.9	6
47	Cell biology of the future: Nanometer-scale cellular cartography. Journal of Cell Biology, 2015, 211, 211-214.	5.2	5
48	Acquiring snapshots of the orientation of transâ€membrane protein domains using a hybrid FRET pair. FEBS Letters, 2015, 589, 885-889.	2.8	4
49	SIMply Better Resolution in Live Cells. Trends in Cell Biology, 2015, 25, 636-638.	7.9	4
50	Imaging the rapid yet transient accumulation of regulatory lipids, lipid kinases, and protein kinases during membrane fusion, at sites of exocytosis of MMP-9 in MCF-7 cells. Lipids in Health and Disease, 2020, 19, 195.	3.0	3
51	Sterols Lower Energetic Barriers of Membrane Bending and Fission Necessary for Efficient Clathrin Mediated Endocytosis. SSRN Electronic Journal, 0, , .	0.4	1
52	Bridging the Spectral Gap in Fluorescent Proteins through Directed Evolution. Chemistry and Biology, 2013, 20, 1203-1205.	6.0	0
53	Imaging the Dynamic Release and Capture of Vesicle Membrane Proteins in Mammalian Cells. Microscopy and Microanalysis, 2015, 21, 67-68.	0.4	0
54	Correlative iPALM and Platinum Replica Electron Tomography to Highlight Single Molecules on Clathrin Endocytic Structures in 3D. Microscopy and Microanalysis, 2015, 21, 1497-1498.	0.4	0

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55	Modeling the Flat to Curved Transition during Clathrin Mediated Endocytosis. Biophysical Journal, 2018, 114, 280a.	0.5	0
56	Mapping Protein Dynamics During Exocytosis of Single Microvesicles in Neuroendocrine Cells with Evanescent Field Mcroscopy. Microscopy and Microanalysis, 2019, 25, 1238-1239.	0.4	0
57	Visualizing the Structural Progression of Clathrin Mediated Endocytosis with Fluorescence and Electron Microscopy. Microscopy and Microanalysis, 2020, 26, 794-795.	0.4	0
58	Imaging the structure of the plasma membrane with platinum replica and cryogenic electron microscopy and tomography of unroofed cells.. Microscopy and Microanalysis, 2021, 27, 1894-1895.	0.4	0
59	A marginal band of microtubules transports and organizes mitochondria in retinal bipolar synaptic terminals. Journal of Cell Biology, 2015, 210, 2102OIA145.	5.2	0