

# Alice Y Ting

## List of Publications by Year in descending order

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98  
papers

21,810  
citations

19608

61  
h-index

29081

104  
g-index

141  
all docs

141  
docs citations

141  
times ranked

23250  
citing authors

#	ARTICLE	IF	CITATIONS
1	Creating new fluorescent probes for cell biology. <i>Nature Reviews Molecular Cell Biology</i> , 2002, 3, 906-918.	16.1	1,874
2	RNA targeting with CRISPR-Cas13. <i>Nature</i> , 2017, 550, 280-284.	13.7	1,442
3	Fluorescent probes for super-resolution imaging in living cells. <i>Nature Reviews Molecular Cell Biology</i> , 2008, 9, 929-943.	16.1	1,187
4	Efficient proximity labeling in living cells and organisms with TurboID. <i>Nature Biotechnology</i> , 2018, 36, 880-887.	9.4	1,103
5	Proteomic Mapping of Mitochondria in Living Cells via Spatially Restricted Enzymatic Tagging. <i>Science</i> , 2013, 339, 1328-1331.	6.0	1,023
6	Directed evolution of APEX2 for electron microscopy and proximity labeling. <i>Nature Methods</i> , 2015, 12, 51-54.	9.0	1,014
7	Next-Generation Optical Technologies for Illuminating Genetically Targeted Brain Circuits. <i>Journal of Neuroscience</i> , 2006, 26, 10380-10386.	1.7	708
8	Antibiotics induce redox-related physiological alterations as part of their lethality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E2100-9.	3.3	698
9	Site-specific labeling of cell surface proteins with biophysical probes using biotin ligase. <i>Nature Methods</i> , 2005, 2, 99-104.	9.0	617
10	Engineered ascorbate peroxidase as a genetically encoded reporter for electron microscopy. <i>Nature Biotechnology</i> , 2012, 30, 1143-1148.	9.4	584
11	Compact Biocompatible Quantum Dots Functionalized for Cellular Imaging. <i>Journal of the American Chemical Society</i> , 2008, 130, 1274-1284.	6.6	583
12	Targeting quantum dots to surface proteins in living cells with biotin ligase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 7583-7588.	3.3	516
13	Proteomic Mapping of the Human Mitochondrial Intermembrane Space in Live Cells via Ratiometric APEX Tagging. <i>Molecular Cell</i> , 2014, 55, 332-341.	4.5	414
14	Spatially resolved proteomic mapping in living cells with the engineered peroxidase APEX2. <i>Nature Protocols</i> , 2016, 11, 456-475.	5.5	411
15	Atlas of Subcellular RNA Localization Revealed by APEX-Seq. <i>Cell</i> , 2019, 178, 473-490.e26.	13.5	400
16	Monovalent, reduced-size quantum dots for imaging receptors on living cells. <i>Nature Methods</i> , 2008, 5, 397-399.	9.0	398
17	Redirecting lipoic acid ligase for cell surface protein labeling with small-molecule probes. <i>Nature Biotechnology</i> , 2007, 25, 1483-1487.	9.4	340
18	A monovalent streptavidin with a single femtomolar biotin binding site. <i>Nature Methods</i> , 2006, 3, 267-273.	9.0	334

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19	Proteomic Analysis of Unbounded Cellular Compartments: Synaptic Clefts. <i>Cell</i> , 2016, 166, 1295-1307.e21.	13.5	324
20	An Approach to Spatiotemporally Resolve Protein Interaction Networks in Living Cells. <i>Cell</i> , 2017, 169, 350-360.e12.	13.5	322
21	Site-specific labeling of proteins with small molecules in live cells. <i>Current Opinion in Biotechnology</i> , 2005, 16, 35-40.	3.3	313
22	Fast, Cell-compatible Click Chemistry with Copper-chelating Azides for Biomolecular Labeling. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5852-5856.	7.2	281
23	Proteomic mapping of cytosol-facing outer mitochondrial and ER membranes in living human cells by proximity biotinylation. <i>ELife</i> , 2017, 6, .	2.8	276
24	Compact Biocompatible Quantum Dots via RAFT-Mediated Synthesis of Imidazole-Based Random Copolymer Ligand. <i>Journal of the American Chemical Society</i> , 2010, 132, 472-483.	6.6	271
25	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.	3.3	268
26	Deciphering molecular interactions by proximity labeling. <i>Nature Methods</i> , 2021, 18, 133-143.	9.0	259
27	Diels-Alder Cycloaddition for Fluorophore Targeting to Specific Proteins inside Living Cells. <i>Journal of the American Chemical Society</i> , 2012, 134, 792-795.	6.6	230
28	Imaging proteins in live mammalian cells with biotin ligase and monovalent streptavidin. <i>Nature Protocols</i> , 2008, 3, 534-545.	5.5	221
29	Transglutaminase-Catalyzed Site-Specific Conjugation of Small-Molecule Probes to Proteins in Vitro and on the Surface of Living Cells. <i>Journal of the American Chemical Society</i> , 2006, 128, 4542-4543.	6.6	219
30	Split-TurboID enables contact-dependent proximity labeling in cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 12143-12154.	3.3	179
31	InAs(ZnCdS) Quantum Dots Optimized for Biological Imaging in the Near-Infrared. <i>Journal of the American Chemical Society</i> , 2010, 132, 470-471.	6.6	177
32	Proximity labeling in mammalian cells with TurboID and split-TurboID. <i>Nature Protocols</i> , 2020, 15, 3971-3999.	5.5	171
33	A light- and calcium-gated transcription factor for imaging and manipulating activated neurons. <i>Nature Biotechnology</i> , 2017, 35, 864-871.	9.4	165
34	Proximity labeling of protein complexes and cell-type-specific organellar proteomes in Arabidopsis enabled by TurboID. <i>ELife</i> , 2019, 8, .	2.8	163
35	TurboID-based proximity labeling reveals that UBR7 is a regulator of NLR immune receptor-mediated immunity. <i>Nature Communications</i> , 2019, 10, 3252.	5.8	159
36	APEX Fingerprinting Reveals the Subcellular Localization of Proteins of Interest. <i>Cell Reports</i> , 2016, 15, 1837-1847.	2.9	153

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37	Electron microscopy using the genetically encoded APEX2 tag in cultured mammalian cells. <i>Nature Protocols</i> , 2017, 12, 1792-1816.	5.5	146
38	Proteomic mapping in live <i>Drosophila</i> tissues using an engineered ascorbate peroxidase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 12093-12098.	3.3	143
39	Live-cell mapping of organelle-associated RNAs via proximity biotinylation combined with protein-RNA crosslinking. <i>ELife</i> , 2017, 6, .	2.8	143
40	A split horseradish peroxidase for the detection of intercellular protein-protein interactions and sensitive visualization of synapses. <i>Nature Biotechnology</i> , 2016, 34, 774-780.	9.4	140
41	Probing ion permeation and gating in a K <sup>+</sup> channel with backbone mutations in the selectivity filter. <i>Nature Neuroscience</i> , 2001, 4, 239-246.	7.1	123
42	Cell-Surface Proteomic Profiling in the Fly Brain Uncovers Wiring Regulators. <i>Cell</i> , 2020, 180, 373-386.e15.	13.5	118
43	Fluorophore Targeting to Cellular Proteins via Enzyme-Mediated Azide Ligation and Strain-Promoted Cycloaddition. <i>Journal of the American Chemical Society</i> , 2012, 134, 3720-3728.	6.6	114
44	Antibodies to biotin enable large-scale detection of biotinylation sites on proteins. <i>Nature Methods</i> , 2017, 14, 1167-1170.	9.0	114
45	Directed Evolution of Split APEX2 Peroxidase. <i>ACS Chemical Biology</i> , 2019, 14, 619-635.	1.6	113
46	Protein-Protein Interaction Detection in Vitro and in Cells by Proximity Biotinylation. <i>Journal of the American Chemical Society</i> , 2008, 130, 9251-9253.	6.6	110
47	A Mechanical Switch Couples T Cell Receptor Triggering to the Cytoplasmic Juxtamembrane Regions of CD3 $\zeta$ . <i>Immunity</i> , 2015, 43, 227-239.	6.6	107
48	RNA-protein interaction mapping via MS2- or Cas13-based APEX targeting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 22068-22079.	3.3	105
49	Proximity Biotinylation as a Method for Mapping Proteins Associated with mtDNA in Living Cells. <i>Cell Chemical Biology</i> , 2017, 24, 404-414.	2.5	102
50	Temporal fluctuations of fluorescence resonance energy transfer between two dyes conjugated to a single protein. <i>Chemical Physics</i> , 1999, 247, 107-118.	0.9	97
51	Genetically Encoded Fluorescent Reporters of Histone Methylation in Living Cells. <i>Journal of the American Chemical Society</i> , 2004, 126, 5982-5983.	6.6	94
52	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.	6.6	94
53	Proximity labeling: spatially resolved proteomic mapping for neurobiology. <i>Current Opinion in Neurobiology</i> , 2018, 50, 17-23.	2.0	92
54	In Situ Peroxidase Labeling and Mass-Spectrometry Connects Alpha-Synuclein Directly to Endocytic Trafficking and mRNA Metabolism in Neurons. <i>Cell Systems</i> , 2017, 4, 242-250.e4.	2.9	91

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55	Site-specific protein labeling using PRIME and chelation-assisted click chemistry. <i>Nature Protocols</i> , 2013, 8, 1620-1634.	5.5	84
56	Molecular Cloning of a <i>Schizosaccharomyces pombe</i> cDNA Encoding Lanosterol Synthase and Investigation of Conserved Tryptophan Residues. <i>Biochemical and Biophysical Research Communications</i> , 1996, 219, 327-331.	1.0	73
57	Cytoplasmic Relaxation of Active Eph Controls Ephrin Shedding by ADAM10. <i>PLoS Biology</i> , 2009, 7, e1000215.	2.6	72
58	Phage Display Evolution of a Peptide Substrate for Yeast Biotin Ligase and Application to Two-Color Quantum Dot Labeling of Cell Surface Proteins. <i>Journal of the American Chemical Society</i> , 2007, 129, 6619-6625.	6.6	71
59	Expanding the Substrate Tolerance of Biotin Ligase through Exploration of Enzymes from Diverse Species. <i>Journal of the American Chemical Society</i> , 2008, 130, 1160-1162.	6.6	69
60	Directed evolution improves the catalytic efficiency of TEV protease. <i>Nature Methods</i> , 2020, 17, 167-174.	9.0	69
61	IDOL Stimulates Clathrin-Independent Endocytosis and Multivesicular Body-Mediated Lysosomal Degradation of the Low-Density Lipoprotein Receptor. <i>Molecular and Cellular Biology</i> , 2013, 33, 1503-1514.	1.1	68
62	Quantum Dot Targeting with Lipoic Acid Ligase and HaloTag for Single-Molecule Imaging on Living Cells. <i>ACS Nano</i> , 2012, 6, 11080-11087.	7.3	67
63	Molecular tools for imaging and recording neuronal activity. <i>Nature Chemical Biology</i> , 2019, 15, 101-110.	3.9	67
64	Time-gated detection of protein-protein interactions with transcriptional readout. <i>ELife</i> , 2017, 6, .	2.8	64
65	SIGNAL TRANSDUCTION: Decoding NF- $\kappa$ B. <i>Science</i> , 2002, 298, 1189-1190.	6.0	63
66	Computational design of a red fluorophore ligase for site-specific protein labeling in living cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E4551-9.	3.3	62
67	Site-Specific Protein Modification Using Lipoic Acid Ligase and Bis-Aryl Hydrazone Formation. <i>ChemBioChem</i> , 2012, 13, 888-894.	1.3	58
68	Site-specific Modification of AAV Vector Particles With Biophysical Probes and Targeting Ligands Using Biotin Ligase. <i>Molecular Therapy</i> , 2008, 16, 1467-1473.	3.7	52
69	The Dopamine Transporter Recycles via a Retromer-Dependent Postendocytic Mechanism: Tracking Studies Using a Novel Fluorophore-Coupling Approach. <i>Journal of Neuroscience</i> , 2017, 37, 9438-9452.	1.7	52
70	Luciferase-LOV BRET enables versatile and specific transcriptional readout of cellular protein-protein interactions. <i>ELife</i> , 2019, 8, .	2.8	52
71	Proteomics of protein trafficking by in vivo tissue-specific labeling. <i>Nature Communications</i> , 2021, 12, 2382.	5.8	51
72	Imaging Protein-Protein Interactions inside Living Cells via Interaction-Dependent Fluorophore Ligation. <i>Journal of the American Chemical Society</i> , 2011, 133, 19769-19776.	6.6	48

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73	Synthesis of 7-aminocoumarin by Buchwald-Hartwig Cross Coupling for Specific Protein Labeling in Living Cells. <i>ChemBioChem</i> , 2011, 12, 65-70.	1.3	48
74	Spatiotemporally-resolved mapping of RNA binding proteins via functional proximity labeling reveals a mitochondrial mRNA anchor promoting stress recovery. <i>Nature Communications</i> , 2021, 12, 4980.	5.8	47
75	Energetic Analysis of an Engineered Cation- $\pi$ Interaction in Staphylococcal Nuclease. <i>Journal of the American Chemical Society</i> , 1998, 120, 7135-7136.	6.6	43
76	A Genetically Encoded Fluorescent Reporter of Histone Phosphorylation in Living Cells. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 2940-2943.	7.2	42
77	Single nucleotide polymorphisms alter kinase anchoring and the subcellular targeting of A-kinase anchoring proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E11465-E11474.	3.3	41
78	The heparin-binding domain of HB-EGF mediates localization to sites of cell-cell contact and prevents HB-EGF proteolytic release. <i>Journal of Cell Science</i> , 2010, 123, 2308-2318.	1.2	40
79	A Molecular Calcium Integrator Reveals a Striatal Cell Type Driving Aversion. <i>Cell</i> , 2020, 183, 2003-2019.e16.	13.5	40
80	Imaging Trans-Cellular Neurexin-Neuroigin Interactions by Enzymatic Probe Ligation. <i>PLoS ONE</i> , 2013, 8, e52823.	1.1	37
81	Analysis of Backbone Hydrogen Bonding in a $\beta$ -Turn of Staphylococcal Nuclease. <i>Journal of the American Chemical Society</i> , 1997, 119, 12667-12668.	6.6	34
82	Improved enantioselective dihydroxylation of bishomoallylic alcohol derivatives using a mechanistically inspired bis-cinchona alkaloid catalyst. <i>Tetrahedron Letters</i> , 1996, 37, 1735-1738.	0.7	31
83	Proximity labeling reveals non-centrosomal microtubule-organizing center components required for microtubule growth and localization. <i>Current Biology</i> , 2021, 31, 3586-3600.e11.	1.8	31
84	Pyrenebutyrate Leads to Cellular Binding, Not Intracellular Delivery, of Polyarginine Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 1312-1315.	2.1	30
85	LUZP1, a novel regulator of primary cilia and the actin cytoskeleton, is a contributing factor in Townes-Brocks Syndrome. <i>ELife</i> , 2020, 9, .	2.8	27
86	Proximity-Labeling Reveals Novel Host and Parasite Proteins at the <i>Toxoplasma</i> Parasitophorous Vacuole Membrane. <i>MBio</i> , 2021, 12, e0026021.	1.8	26
87	Imaging LDL Receptor Oligomerization during Endocytosis Using a Co-internalization Assay. <i>ACS Chemical Biology</i> , 2011, 6, 308-313.	1.6	23
88	Transcriptional readout of neuronal activity via an engineered Ca <sup>2+</sup> -activated protease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 33186-33196.	3.3	20
89	An engineered transcriptional reporter of protein localization identifies regulators of mitochondrial and ER membrane protein trafficking in high-throughput CRISPRi screens. <i>ELife</i> , 2021, 10, .	2.8	17
90	Deep Single-Cell-Type Proteome Profiling of Mouse Brain by Nonsurgical AAV-Mediated Proximity Labeling. <i>Analytical Chemistry</i> , 2022, 94, 5325-5334.	3.2	17

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91	Transcription factor Acj6 controls dendrite targeting via a combinatorial cell-surface code. <i>Neuron</i> , 2022, 110, 2299-2314.e8.	3.8	16
92	Synthesis of a Ketone Analogue of Biotin via the Intramolecular Pausonâ€™Khand Reaction. <i>Organic Letters</i> , 2006, 8, 4593-4595.	2.4	12
93	A Toolbox for Efficient Proximity-Dependent Biotinylation in Zebrafish Embryos. <i>Molecular and Cellular Proteomics</i> , 2021, 20, 100128.	2.5	11
94	Beyond Immunoprecipitation: Exploring New Interaction Spaces with Proximity Biotinylation. <i>Biochemistry</i> , 2017, 56, 3297-3298.	1.2	8
95	Proximity interactome analysis of Lassa polymerase reveals eRF3a/GSPT1 as a druggable target for host-directed antivirals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	8
96	Functional interactomes of the Ebola virus polymerase identified by proximity proteomics in the context of viral replication. <i>Cell Reports</i> , 2022, 38, 110544.	2.9	7
97	A Dual-Purpose Real-Time Indicator and Transcriptional Integrator for Calcium Detection in Living Cells. <i>ACS Synthetic Biology</i> , 2022, 11, 1086-1095.	1.9	5
98	Giving cells a new sugar-coating. <i>Nature Chemical Biology</i> , 2006, 2, 127-128.	3.9	4