

Yu Liu

List of Publications by Year in descending order

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46
papers

1,553
citations

304743

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315739

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times ranked

1399
citing authors

#	ARTICLE	IF	CITATIONS
1	Arylfluorosulfates Inactivate Intracellular Lipid Binding Protein(s) through Chemoselective SuFEx Reaction with a Binding Site Tyr Residue. <i>Journal of the American Chemical Society</i> , 2016, 138, 7353-7364.	13.7	212
2	Modulation of Fluorescent Protein Chromophores To Detect Protein Aggregation with Turn-On Fluorescence. <i>Journal of the American Chemical Society</i> , 2018, 140, 7381-7384.	13.7	147
3	AggFluor: Fluorogenic Toolbox Enables Direct Visualization of the Multi-Step Protein Aggregation Process in Live Cells. <i>Journal of the American Chemical Society</i> , 2020, 142, 17515-17523.	13.7	90
4	A Fluorogenic Aryl Fluorosulfate for Intraorganellar Transthyretin Imaging in Living Cells and in <i>Caenorhabditis elegans</i> . <i>Journal of the American Chemical Society</i> , 2015, 137, 7404-7414.	13.7	86
5	AgHalo: A Facile Fluorogenic Sensor to Detect Drug-Induced Proteome Stress. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8672-8676.	13.8	84
6	The Cation- π Interaction Enables a Halo-Tag Fluorogenic Probe for Fast No-Wash Live Cell Imaging and Gel-Free Protein Quantification. <i>Biochemistry</i> , 2017, 56, 1585-1595.	2.5	66
7	Phosphorylation switches protein disulfide isomerase activity to maintain proteostasis and attenuate ER stress. <i>EMBO Journal</i> , 2020, 39, e103841.	7.8	63
8	A Solvatochromic Fluorescent Probe Reveals Polarity Heterogeneity upon Protein Aggregation in Cells. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25865-25871.	13.8	46
9	Monitoring the Dynamics of Proteome Aggregation in Live Cells Using a Solubilized and Noncovalent Analogue of Fluorescent Protein Chromophores. <i>Analytical Chemistry</i> , 2021, 93, 1717-1724.	6.5	46
10	A Fluorogenic <i>AggTag</i> Method Based on Halo- and SNAP-Tags to Simultaneously Detect Aggregation of Two Proteins in Live Cells. <i>ChemBioChem</i> , 2019, 20, 1078-1087.	2.6	45
11	Synthesis of Sulfotyrosine-Containing Peptides by Incorporating Fluorosulfated Tyrosine Using an Fmoc-Based Solid-Phase Strategy. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1835-1838.	13.8	43
12	Rational Design of Crystallization-Induced Emission Probes To Detect Amorphous Protein Aggregation in Live Cells. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16067-16076.	13.8	42
13	Stabilizing the C _H ² Domain of an Antibody by Engineering in an Enhanced Aromatic Sequon. <i>ACS Chemical Biology</i> , 2016, 11, 1852-1861.	3.4	40
14	Individual and Collective Contributions of Chaperoning and Degradation to Protein Homeostasis in <i>E. coli</i> . <i>Cell Reports</i> , 2015, 11, 321-333.	6.4	39
15	A HaloTag-Based Multicolor Fluorogenic Sensor Visualizes and Quantifies Proteome Stress in Live Cells Using Solvatochromic and Molecular Rotor-Based Fluorophores. <i>Biochemistry</i> , 2018, 57, 4663-4674.	2.5	39
16	A Molecular Rotor-Based Halo-Tag Ligand Enables a Fluorogenic Proteome Stress Sensor to Detect Protein Misfolding in Mildly Stressed Proteome. <i>Bioconjugate Chemistry</i> , 2018, 29, 215-224.	3.6	38
17	Fluorescence Turn-On Folding Sensor To Monitor Proteome Stress in Live Cells. <i>Journal of the American Chemical Society</i> , 2015, 137, 11303-11311.	13.7	37
18	A General Strategy to Enhance Donor-Acceptor Molecules Using Solvent-Excluding Substituents. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4785-4792.	13.8	34

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19	Stilbene Vinyl Sulfonamides as Fluorogenic Sensors of and Traceless Covalent Kinetic Stabilizers of Transthyretin That Prevent Amyloidogenesis. <i>Journal of the American Chemical Society</i> , 2013, 135, 17869-17880.	13.7	33
20	Covalent Probes for Aggregated Protein Imaging via Michael Addition. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11335-11343.	13.8	33
21	Small molecule probes to quantify the functional fraction of a specific protein in a cell with minimal folding equilibrium shifts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 4449-4454.	7.1	32
22	Quantitative interrogation of protein co-aggregation using multi-color fluorogenic protein aggregation sensors. <i>Chemical Science</i> , 2021, 12, 8468-8476.	7.4	26
23	Heat-Shock Response Transcriptional Program Enables High-Yield and High-Quality Recombinant Protein Production in <i>Escherichia coli</i> . <i>ACS Chemical Biology</i> , 2014, 9, 1945-1949.	3.4	23
24	A SNAP-tag fluorogenic probe mimicking the chromophore of the red fluorescent protein Kaede. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 1906-1915.	2.8	22
25	<i>De Novo</i> -Designed Enzymes as Small-Molecule-Regulated Fluorescence Imaging Tags and Fluorescent Reporters. <i>Journal of the American Chemical Society</i> , 2014, 136, 13102-13105.	13.7	18
26	Synthesis of Sulfotyrosine-Containing Peptides by Incorporating Fluorosulfated Tyrosine Using an Fmoc-Based Solid-Phase Strategy. <i>Angewandte Chemie</i> , 2016, 128, 1867-1870.	2.0	17
27	Regulation of Fluorescence Solvatochromism To Resolve Cellular Polarity upon Protein Aggregation. <i>Analytical Chemistry</i> , 2021, 93, 16447-16455.	6.5	17
28	Detecting the insoluble protein aggregates in live cells using an AIE derivative of fluorescent protein chromophore. <i>Sensors and Actuators B: Chemical</i> , 2022, 353, 131098.	7.8	16
29	Illuminating Protein Phase Separation: Reviewing Aggregation-Induced Emission, Fluorescent Molecular Rotor and Solvatochromic Fluorophore Based Probes. <i>Chemistry - A European Journal</i> , 2021, 27, 14564-14576.	3.3	12
30	Derivatizing Nile Red fluorophores to quantify the heterogeneous polarity upon protein aggregation in the cell. <i>Chemical Communications</i> , 2022, 58, 5407-5410.	4.1	12
31	AgHalo: A Facile Fluorogenic Sensor to Detect Drug-Induced Proteome Stress. <i>Angewandte Chemie</i> , 2017, 129, 8798-8802.	2.0	11
32	Derivatizing merocyanine dyes to balance their polarity and viscosity sensitivities for protein aggregation detection. <i>Chemical Communications</i> , 2021, 57, 13313-13316.	4.1	9
33	Solvatochromic Cellular Stress Sensors Reveal the Compactness Heterogeneity and Dynamics of Aggregated Proteome. <i>ACS Sensors</i> , 2022, 7, 1919-1925.	7.8	9
34	Fluorogenic small molecules requiring reaction with a specific protein to create a fluorescent conjugate for biological imaging—what we know and what we need to learn. <i>Biopolymers</i> , 2014, 101, 484-495.	2.4	8
35	A Novel Virus Detection Strategy Enabled by TR512-Peptide-Based Bioorthogonal Capture and Enrichment of Preamplified Nucleic Acid. <i>Analytical Chemistry</i> , 2022, 94, 5591-5598.	6.5	8
36	Super-Resolution Optical Lithography with DNA. <i>Nano Letters</i> , 2019, 19, 6035-6042.	9.1	7

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37	Covalent Probes for Aggregated Protein Imaging via Michael Addition. <i>Angewandte Chemie</i> , 2021, 133, 11436-11444.	2.0	7
38	Chemical Biology Toolbox to Visualize Protein Aggregation in Live Cells. <i>ChemBioChem</i> , 2022, 23, .	2.6	7
39	Heat Shock Protein Reports on Proteome Stress. <i>Biotechnology Journal</i> , 2018, 13, .	3.5	5
40	A quinoline-benzothiazole hybrid as the first near-infrared fluorescent probe for transthyretin. <i>New Journal of Chemistry</i> , 2021, 45, 18453-18458.	2.8	5
41	Common Pitfalls and Recommendations for Using a Turbidity Assay to Study Protein Phase Separation. <i>Biochemistry</i> , 2021, 60, 2447-2456.	2.5	5
42	Rational Design of Crystallization-Induced Emission Probes To Detect Amorphous Protein Aggregation in Live Cells. <i>Angewandte Chemie</i> , 2021, 133, 16203-16212.	2.0	4
43	A Solvatochromic Fluorescent Probe Reveals Polarity Heterogeneity upon Protein Aggregation in Cells. <i>Angewandte Chemie</i> , 2021, 133, 26069-26075.	2.0	4
44	A quinoline derived D-A-D type fluorescent probe for sensing tetrameric transthyretin. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021, 52, 128408.	2.2	4
45	Monitoring Proteome Stress in Live Cells Using HaloTag-Based Fluorogenic Sensor. <i>Methods in Molecular Biology</i> , 2019, 1873, 171-182.	0.9	2
46	Frontispiece: Illuminating Protein Phase Separation: Reviewing Aggregation-Induced Emission, Fluorescent Molecular Rotor and Solvatochromic Fluorophore Based Probes. <i>Chemistry - A European Journal</i> , 2021, 27, .	3.3	0