

Edward A Lemke

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

105
papers

8,328
citations

44
h-index

91
g-index

117
ext. papers

9,885
ext. citations

12.4
avg, IF

6.09
L-index

#	Paper	IF	Citations
105	Molecular anatomy of a trafficking organelle. <i>Cell</i> , 2006 , 127, 831-46	56.2	1670
104	A near-infrared fluorophore for live-cell super-resolution microscopy of cellular proteins. <i>Nature Chemistry</i> , 2013 , 5, 132-9	17.6	607
103	Interplay of alpha-synuclein binding and conformational switching probed by single-molecule fluorescence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 5645-50	11.5	327
102	Amino acids for Diels-Alder reactions in living cells. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 4166-70	16.4	271
101	In situ structural analysis of the human nuclear pore complex. <i>Nature</i> , 2015 , 526, 140-143	50.4	267
100	A natively unfolded yeast prion monomer adopts an ensemble of collapsed and rapidly fluctuating structures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 2649-54	11.5	259
99	Genetically encoded copper-free click chemistry. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 3878-81	16.4	243
98	Single-molecule biophysics: at the interface of biology, physics and chemistry. <i>Journal of the Royal Society Interface</i> , 2008 , 5, 15-45	4.1	224
97	Cell type-specific nuclear pores: a case in point for context-dependent stoichiometry of molecular machines. <i>Molecular Systems Biology</i> , 2013 , 9, 648	12.2	219
96	Minimal tags for rapid dual-color live-cell labeling and super-resolution microscopy. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 2245-9	16.4	210
95	Precision and accuracy of single-molecule FRET measurements-a multi-laboratory benchmark study. <i>Nature Methods</i> , 2018 , 15, 669-676	21.6	188
94	Plasticity of an ultrafast interaction between nucleoporins and nuclear transport receptors. <i>Cell</i> , 2015 , 163, 734-45	56.2	185
93	Control of protein phosphorylation with a genetically encoded photocaged amino acid. <i>Nature Chemical Biology</i> , 2007 , 3, 769-72	11.7	169
92	Fourier ring correlation as a resolution criterion for super-resolution microscopy. <i>Journal of Structural Biology</i> , 2013 , 183, 363-367	3.4	167
91	A general and efficient method for the site-specific dual-labeling of proteins for single molecule fluorescence resonance energy transfer. <i>Journal of the American Chemical Society</i> , 2008 , 130, 17664-5	16.4	145
90	Genetic incorporation of a small, environmentally sensitive, fluorescent probe into proteins in <i>Saccharomyces cerevisiae</i> . <i>Journal of the American Chemical Society</i> , 2009 , 131, 12921-3	16.4	143
89	Genetic encoding of a bicyclo[6.1.0]nonyne-charged amino acid enables fast cellular protein imaging by metal-free ligation. <i>ChemBioChem</i> , 2012 , 13, 2094-9	3.8	139

88	Decoupling of size and shape fluctuations in heteropolymeric sequences reconciles discrepancies in SAXS vs. FRET measurements. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E6342-E6351	11.5	136
87	Visualizing a one-way protein encounter complex by ultrafast single-molecule mixing. <i>Nature Methods</i> , 2011 , 8, 239-41	21.6	113
86	Labeling proteins on live mammalian cells using click chemistry. <i>Nature Protocols</i> , 2015 , 10, 780-91	18.8	101
85	Click strategies for single-molecule protein fluorescence. <i>Journal of the American Chemical Society</i> , 2012 , 134, 5187-95	16.4	95
84	Conserved features of intermediates in amyloid assembly determine their benign or toxic states. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 11172-7	11.5	94
83	Associating HIV-1 envelope glycoprotein structures with states on the virus observed by smFRET. <i>Nature</i> , 2019 , 568, 415-419	50.4	92
82	Debugging Eukaryotic Genetic Code Expansion for Site-Specific Click-PAINT Super-Resolution Microscopy. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 16172-16176	16.4	86
81	Principles for designing fluorescent sensors and reporters. <i>Nature Chemical Biology</i> , 2011 , 7, 480-3	11.7	77
80	Direct Visualization of the Conformational Dynamics of Single Influenza Hemagglutinin Trimers. <i>Cell</i> , 2018 , 174, 926-937.e12	56.2	74
79	Amino Acids for Diels-Alder Reactions in Living Cells. <i>Angewandte Chemie</i> , 2012 , 124, 4242-4246	3.6	73
78	Single molecule study of the intrinsically disordered FG-repeat nucleoporin 153. <i>Biophysical Journal</i> , 2011 , 101, 1710-9	2.9	73
77	Designer membraneless organelles enable codon reassignment of selected mRNAs in eukaryotes. <i>Science</i> , 2019 , 363,	33.3	70
76	Direct single-molecule observation of a protein living in two opposed native structures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 10153-8	11.5	70
75	Visualization of synaptic vesicle movement in intact synaptic boutons using fluorescence fluctuation spectroscopy. <i>Biophysical Journal</i> , 2005 , 89, 2091-102	2.9	64
74	Kirkwood-Buff Approach Rescues Overcollapse of a Disordered Protein in Canonical Protein Force Fields. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 7975-84	3.4	61
73	Genetisch kodierte kupferfreie Klick-Chemie. <i>Angewandte Chemie</i> , 2011 , 123, 3964-3967	3.6	61
72	Genetic code expansion enabled site-specific dual-color protein labeling: superresolution microscopy and beyond. <i>Current Opinion in Chemical Biology</i> , 2015 , 28, 164-73	9.7	56
71	Microfluidic device for single-molecule experiments with enhanced photostability. <i>Journal of the American Chemical Society</i> , 2009 , 131, 13610-2	16.4	55

70	Monomeric Huntingtin Exon 1 Has Similar Overall Structural Features for Wild-Type and Pathological Polyglutamine Lengths. <i>Journal of the American Chemical Society</i> , 2017 , 139, 14456-14469	16.4	54
69	Facilitated aggregation of FG nucleoporins under molecular crowding conditions. <i>EMBO Reports</i> , 2013 , 14, 178-83	6.5	49
68	Genetic code expansion for multiprotein complex engineering. <i>Nature Methods</i> , 2016 , 13, 997-1000	21.6	48
67	The Multiple Faces of Disordered Nucleoporins. <i>Journal of Molecular Biology</i> , 2016 , 428, 2011-24	6.5	48
66	Highly Stable trans-Cyclooctene Amino Acids for Live-Cell Labeling. <i>Chemistry - A European Journal</i> , 2015 , 21, 12266-70	4.8	47
65	New Red-Emitting Tetrazine-Phenoxazine Fluorogenic Labels for Live-Cell Intracellular Bioorthogonal Labeling Schemes. <i>Chemistry - A European Journal</i> , 2016 , 22, 8972-9	4.8	46
64	Schnelle, zweifarbige Proteinmarkierung an lebenden Zellen für die hochauflösende Mikroskopie. <i>Angewandte Chemie</i> , 2014 , 126, 2278-2282	3.6	45
63	Floppy but not sloppy: Interaction mechanism of FG-nucleoporins and nuclear transport receptors. <i>Seminars in Cell and Developmental Biology</i> , 2017 , 68, 34-41	7.5	45
62	Single synaptic vesicle tracking in individual hippocampal boutons at rest and during synaptic activity. <i>Journal of Neuroscience</i> , 2005 , 25, 11034-44	6.6	45
61	FRET-based dynamic structural biology: Challenges, perspectives and an appeal for open-science practices. <i>ELife</i> , 2021 , 10,	8.9	43
60	A Versatile Tool for Live-Cell Imaging and Super-Resolution Nanoscopy Studies of HIV-1 Env Distribution and Mobility. <i>Cell Chemical Biology</i> , 2017 , 24, 635-645.e5	8.2	42
59	A new family of bioorthogonally applicable fluorogenic labels. <i>Organic and Biomolecular Chemistry</i> , 2013 , 11, 3297-306	3.9	42
58	Continuous throughput and long-term observation of single-molecule FRET without immobilization. <i>Nature Methods</i> , 2014 , 11, 297-300	21.6	41
57	Origin of Orthogonality of Strain-Promoted Click Reactions. <i>Chemistry - A European Journal</i> , 2015 , 21, 12431-5	4.8	40
56	Large-Scale Conformational Dynamics Control H5N1 Influenza Polymerase PB2 Binding to Importin β . <i>Journal of the American Chemical Society</i> , 2015 , 137, 15122-34	16.4	39
55	Orthogonal spin labeling using click chemistry for in vitro and in vivo applications. <i>Journal of Magnetic Resonance</i> , 2017 , 275, 38-45	3	38
54	The liquid state of FG-nucleoporins mimics permeability barrier properties of nuclear pore complexes. <i>Journal of Cell Biology</i> , 2020 , 219,	7.3	37
53	Hydrophilic trans-Cyclooctenylated Noncanonical Amino Acids for Fast Intracellular Protein Labeling. <i>ChemBioChem</i> , 2016 , 17, 1518-24	3.8	36

52	The CD27L and CTP1L endolysins targeting Clostridia contain a built-in trigger and release factor. <i>PLoS Pathogens</i> , 2014 , 10, e1004228	7.6	34
51	New generation of bioorthogonally applicable fluorogenic dyes with visible excitations and large Stokes shifts. <i>Bioconjugate Chemistry</i> , 2014 , 25, 1370-4	6.3	31
50	PED in 2021: a major update of the protein ensemble database for intrinsically disordered proteins. <i>Nucleic Acids Research</i> , 2021 , 49, D404-D411	20.1	31
49	Two Differential Binding Mechanisms of FG-Nucleoporins and Nuclear Transport Receptors. <i>Cell Reports</i> , 2018 , 22, 3660-3671	10.6	28
48	Mapping multivalency and differential affinities within large intrinsically disordered protein complexes with segmental motion analysis. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 7364-7	16.4	27
47	Labeling of virus components for advanced, quantitative imaging analyses. <i>FEBS Letters</i> , 2016 , 590, 1896-1914	3.14	27
46	Intramolecular three-colour single pair FRET of intrinsically disordered proteins with increased dynamic range. <i>Molecular BioSystems</i> , 2012 , 8, 2531-4		26
45	Site-specific labeling of proteins for single-molecule FRET measurements using genetically encoded ketone functionalities. <i>Methods in Molecular Biology</i> , 2011 , 751, 3-15	1.4	25
44	Single-molecule FRET and crosslinking studies in structural biology enabled by noncanonical amino acids. <i>Current Opinion in Structural Biology</i> , 2015 , 32, 66-73	8.1	24
43	Identification and mutational studies of conserved amino acids in the outer membrane receptor protein, FepA, which affect transport but not binding of ferric-enterobactin in Escherichia coli. <i>BioMetals</i> , 2003 , 16, 507-18	3.4	24
42	Comment on "Innovative scattering analysis shows that hydrophobic disordered proteins are expanded in water". <i>Science</i> , 2018 , 361,	33.3	23
41	Super-resolution Microscopy of Clickable Amino Acids Reveals the Effects of Fluorescent Protein Tagging on Protein Assemblies. <i>ACS Nano</i> , 2015 , 9, 11034-41	16.7	22
40	Genetically encoded click chemistry for single-molecule FRET of proteins. <i>Methods in Cell Biology</i> , 2013 , 113, 169-87	1.8	20
39	Architecture of TAF11/TAF13/TBP complex suggests novel regulation properties of general transcription factor TFIID. <i>ELife</i> , 2017 , 6,	8.9	19
38	Bisazide Cyanine Dyes as Fluorogenic Probes for Bis-Cyclooctynylated Peptide Tags and as Fluorogenic Cross-Linkers of Cyclooctynylated Proteins. <i>Bioconjugate Chemistry</i> , 2017 , 28, 1552-1559	6.3	16
37	Bistetrazine-Cyanines as Double-Clicking Fluorogenic Two-Point Binder or Crosslinker Probes. <i>Chemistry - A European Journal</i> , 2018 , 24, 8841-8847	4.8	16
36	What precision-protein-tuning and nano-resolved single molecule sciences can do for each other. <i>BioEssays</i> , 2013 , 35, 65-74	4.1	16
35	Sampling Long- versus Short-Range Interactions Defines the Ability of Force Fields To Reproduce the Dynamics of Intrinsically Disordered Proteins. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 3964-3974	6.4	15

34	Application of Noncanonical Amino Acids for Protein Labeling in a Genomically Recoded Escherichia coli. <i>ACS Synthetic Biology</i> , 2017 , 6, 233-255	5.7	15
33	Nanoscale devices for linkerless long-term single-molecule observation. <i>Current Opinion in Biotechnology</i> , 2016 , 39, 105-112	11.4	15
32	Beyond the Transport Function of Import Receptors: What's All the FUS about?. <i>Cell</i> , 2018 , 173, 549-553	56.2	13
31	Unnatural amino acid mutagenesis reveals dimerization as a negative regulatory mechanism of VHR's phosphatase activity. <i>ACS Chemical Biology</i> , 2014 , 9, 1451-9	4.9	11
30	Precision control of cellular pathways with light. <i>ChemBioChem</i> , 2010 , 11, 1825-7	3.8	11
29	Bio-orthogonal Red and Far-Red Fluorogenic Probes for Wash-Free Live-Cell and Super-resolution Microscopy. <i>ACS Central Science</i> , 2021 , 7, 1561-1571	16.8	11
28	Mechanism-Dependent Modulation of Ultrafast Interfacial Water Dynamics in Intrinsically Disordered Protein Complexes. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 4720-4724	16.4	10
27	Palladium-unleashed proteins: gentle aldehyde decaging for site-selective protein modification. <i>Chemical Communications</i> , 2018 , 54, 1501-1504	5.8	10
26	Molecular determinants of large cargo transport into the nucleus. <i>ELife</i> , 2020 , 9,	8.9	10
25	Cargo transport through the nuclear pore complex at a glance. <i>Journal of Cell Science</i> , 2021 , 134,	5.3	10
24	Verbesserte Erweiterung des eukaryotischen genetischen Codes für seitenspezifische, hochauflösende Click-PAINT-Mikroskopie. <i>Angewandte Chemie</i> , 2016 , 128, 16406-16410	3.6	8
23	Synthesis and Evaluation of Novel Ring-Strained Noncanonical Amino Acids for Residue-Specific Bioorthogonal Reactions in Living Cells. <i>Chemistry - A European Journal</i> , 2021 , 27, 6094-6099	4.8	8
22	Dual film-like organelles enable spatial separation of orthogonal eukaryotic translation. <i>Cell</i> , 2021 , 184, 4886-4903.e21	56.2	7
21	Synthetic biomolecular condensates to engineer eukaryotic cells. <i>Current Opinion in Chemical Biology</i> , 2021 , 64, 174-181	9.7	7
20	Raising the ribosomal repertoire. <i>Nature Chemistry</i> , 2020 , 12, 503-504	17.6	6
19	Physics of the nuclear pore complex: Theory, modeling and experiment. <i>Physics Reports</i> , 2021 , 921, 1-53	27.7	6
18	Detektion von Mehrbindigkeit und differenziellen Affinitäten in großen, intrinsisch ungeordneten Proteinen mithilfe von Segmentbewegungsanalyse. <i>Angewandte Chemie</i> , 2014 , 126, 7492-7496	3.6	5
17	Bioorthogonal red and far-red fluorogenic probes for wash-free live-cell and super-resolution microscopy		5

16	Inducible Genetic Code Expansion in Eukaryotes. <i>ChemBioChem</i> , 2020 , 21, 3216-3219	3.8	4
15	Synthesis of Azido-Glycans for Chemical Glycomodification of Proteins. <i>European Journal of Organic Chemistry</i> , 2018 , 2018, 4296-4305	3.2	4
14	MultiBacTAG-Genetic Code Expansion Using the Baculovirus Expression System in Sf21 Cells. <i>Methods in Molecular Biology</i> , 2018 , 1728, 297-311	1.4	3
13	There is plenty of room in protein-RNA condensates. <i>Biophysical Journal</i> , 2021 , 120, 1121-1122	2.9	3
12	Mechanismusabhängige Regulation der ultraschnellen Dynamik von Wasser an Grenzflächen in Komplexen mit intrinsisch ungeordneten Proteinen. <i>Angewandte Chemie</i> , 2019 , 131, 4769-4774	3.6	2
11	Fluorogenic Tetrazine-Siliconrhodamine Probe for the Labeling of Noncanonical Amino Acid Tagged Proteins. <i>Methods in Molecular Biology</i> , 2018 , 1728, 337-363	1.4	2
10	Author response: Architecture of TAF11/TAF13/TBP complex suggests novel regulation properties of general transcription factor TFIID 2017 ,		2
9	Multifunctionality of F-rich nucleoporins. <i>Biochemical Society Transactions</i> , 2020 , 48, 2603-2614	5.1	2
8	Shining a Light on Phase Separation in the Cell. <i>Cell</i> , 2017 , 168, 11-13	56.2	1
7	Phase Separation Comes of Age: From Phenomenology to Single Molecules. <i>Molecular Cell</i> , 2019 , 74, 413-415	17.6	1
6	Condensed, microtubule-coating thin organelles for orthogonal translation in mammalian cells.. <i>Journal of Molecular Biology</i> , 2022 , 167454	6.5	1
5	Molecular determinants of large cargo transport into the nucleus		1
4	Probing Differential Binding Mechanisms of Phenylalanine-Glycine-Rich Nucleoporins by Single-Molecule FRET. <i>Methods in Enzymology</i> , 2018 , 611, 327-346	1.7	0
3	Neue seitenspezifische Proteinfunktionalität mit einem Klick. <i>BioSpektrum</i> , 2016 , 22, 704-707	0.1	
2	Titelbild: Verbesserte Erweiterung des eukaryotischen genetischen Codes für seitenspezifische, hochauflösende Click-PAINT-Mikroskopie (Angew. Chem. 52/2016). <i>Angewandte Chemie</i> , 2016 , 128, 16163-16163	3.6	
1	When two become one: Integrating FRET and EPR into one structural model. <i>Biophysical Journal</i> , 2021 , 120, 4637-4638	2.9	