

Ralf Langen

List of Publications by Year in Descending Order

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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.

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|-------------------|-------------------------|----------------|-----------------|
| 82 papers | 6,689 citations | 41 h-index | 81 g-index |
| 83 ext. papers | 7,424 ext. citations | 6.9 avg, IF | 5.72 L-index |

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 82 | Lysine acetylation regulates the interaction between proteins and membranes. <i>Nature Communications</i> , 2021 , 12, 6466 | 17.4 | 2 |
| 81 | Huntingtin fibrils with different toxicity, structure, and seeding potential can be interconverted. <i>Nature Communications</i> , 2021 , 12, 4272 | 17.4 | 2 |
| 80 | Amplification of neurotoxic HTTex1 assemblies in human neurons. <i>Neurobiology of Disease</i> , 2021 , 159, 105517 | 7.5 | 0 |
| 79 | A new biochemical method for ultra-purification of amyloids from Alzheimer's disease brain tissues. <i>Alzheimers and Dementia</i> , 2021 , 17 Suppl 3, e054185 | 1.2 | |
| 78 | An Amphipathic Alpha-Helix Domain from Poliovirus 2C Protein Tubulate Lipid Vesicles. <i>Viruses</i> , 2020 , 12, | 6.2 | 2 |
| 77 | Discovery of Small Molecule Inhibitors of Huntingtin Exon 1 Aggregation by FRET-Based High-Throughput Screening in Living Cells. <i>ACS Chemical Neuroscience</i> , 2020 , 11, 2286-2295 | 5.7 | 7 |
| 76 | Annexin B12 Trimer Formation is Governed by a Network of Protein-Protein and Protein-Lipid Interactions. <i>Scientific Reports</i> , 2020 , 10, 5301 | 4.9 | 3 |
| 75 | Structural Model of the Proline-Rich Domain of Huntingtin Exon-1 Fibrils. <i>Biophysical Journal</i> , 2020 , 119, 2019-2028 | 2.9 | 4 |
| 74 | The Mitochondrial Peptide Humanin Targets but Does Not Denature Amyloid Oligomers in Type II Diabetes. <i>Journal of the American Chemical Society</i> , 2019 , 141, 14168-14179 | 16.4 | 13 |
| 73 | Structure of Membrane-Bound Huntingtin Exon 1 Reveals Membrane Interaction and Aggregation Mechanisms. <i>Structure</i> , 2019 , 27, 1570-1580.e4 | 5.2 | 11 |
| 72 | Lipid-modulation of membrane insertion and refolding of the apoptotic inhibitor Bcl-xL. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2019 , 1867, 691-700 | 4 | 13 |
| 71 | Identification of distinct conformations associated with monomers and fibril assemblies of mutant huntingtin. <i>Human Molecular Genetics</i> , 2018 , 27, 2330-2343 | 5.6 | 12 |
| 70 | Pericyte degeneration causes white matter dysfunction in the mouse central nervous system. <i>Nature Medicine</i> , 2018 , 24, 326-337 | 50.5 | 211 |
| 69 | The 17-residue-long N terminus in huntingtin controls stepwise aggregation in solution and on membranes via different mechanisms. <i>Journal of Biological Chemistry</i> , 2018 , 293, 2597-2605 | 5.4 | 37 |
| 68 | Membranes as modulators of amyloid protein misfolding and target of toxicity. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018 , 1860, 1863-1875 | 3.8 | 26 |
| 67 | Heterotetrameric annexin A2/S100A10 (A2t) is essential for oncogenic human papillomavirus trafficking and capsid disassembly, and protects virions from lysosomal degradation. <i>Scientific Reports</i> , 2018 , 8, 11642 | 4.9 | 24 |
| 66 | Directed Supramolecular Organization of N-BAR Proteins through Regulation of H0 Membrane Immersion Depth. <i>Scientific Reports</i> , 2018 , 8, 16383 | 4.9 | 3 |

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| 65 | The folding equilibrium of huntingtin exon 1 monomer depends on its polyglutamine tract. <i>Journal of Biological Chemistry</i> , 2018 , 293, 19613-19623 | 5.4 | 19 |
| 64 | Structural insights into the activation mechanism of dynamin-like EHD ATPases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 5629-5634 | 11.5 | 25 |
| 63 | The Mitochondrial-Derived Peptides, HumaninS14G and Small Humanin-like Peptide 2, Exhibit Chaperone-like Activity. <i>Scientific Reports</i> , 2017 , 7, 7802 | 4.9 | 29 |
| 62 | Membrane remodeling by amyloidogenic and non-amyloidogenic proteins studied by EPR. <i>Journal of Magnetic Resonance</i> , 2017 , 280, 127-139 | 3 | 8 |
| 61 | Hydration Dynamics of a Peripheral Membrane Protein. <i>Journal of the American Chemical Society</i> , 2016 , 138, 11526-35 | 16.4 | 40 |
| 60 | βSynuclein Amyloid Fibrils with Two Entwined, Asymmetrically Associated Protofibrils. <i>Journal of Biological Chemistry</i> , 2016 , 291, 2310-8 | 5.4 | 41 |
| 59 | Diabetic Risk Factors Promote Islet Amyloid Polypeptide Misfolding by a Common, Membrane-mediated Mechanism. <i>Scientific Reports</i> , 2016 , 6, 31094 | 4.9 | 8 |
| 58 | Identification and Structural Characterization of the N-terminal Amyloid Core of Orb2 isoform A. <i>Scientific Reports</i> , 2016 , 6, 38265 | 4.9 | 23 |
| 57 | Structural Mechanisms of Mutant Huntingtin Aggregation Suppression by the Synthetic Chaperonin-like CCT5 Complex Explained by Cryoelectron Tomography. <i>Journal of Biological Chemistry</i> , 2015 , 290, 17451-61 | 5.4 | 25 |
| 56 | Tubulation by amphiphysin requires concentration-dependent switching from wedging to scaffolding. <i>Structure</i> , 2015 , 23, 873-881 | 5.2 | 39 |
| 55 | Membrane Curvature-sensing and Curvature-inducing Activity of Islet Amyloid Polypeptide and Its Implications for Membrane Disruption. <i>Journal of Biological Chemistry</i> , 2015 , 290, 25782-93 | 5.4 | 28 |
| 54 | O-GlcNAc modification blocks the aggregation and toxicity of the protein βsynuclein associated with Parkinson's disease. <i>Nature Chemistry</i> , 2015 , 7, 913-20 | 17.6 | 146 |
| 53 | Computer Modeling of Spin Labels: NASNOX, PRONOX, and ALLNOX. <i>Methods in Enzymology</i> , 2015 , 563, 569-93 | 1.7 | 9 |
| 52 | Solid-State Nuclear Magnetic Resonance on the Static and Dynamic Domains of Huntingtin Exon-1 Fibrils. <i>Biochemistry</i> , 2015 , 54, 3942-9 | 3.2 | 47 |
| 51 | Structural Characterization of Membrane-Curving Proteins: Site-Directed Spin Labeling, EPR, and Computational Refinement. <i>Methods in Enzymology</i> , 2015 , 564, 259-88 | 1.7 | 2 |
| 50 | Structural insights into membrane interaction and caveolar targeting of dynamin-like EHD2. <i>Structure</i> , 2014 , 22, 409-420 | 5.2 | 30 |
| 49 | Polyglutamine- and temperature-dependent conformational rigidity in mutant huntingtin revealed by immunoassays and circular dichroism spectroscopy. <i>PLoS ONE</i> , 2014 , 9, e112262 | 3.7 | 28 |
| 48 | Endophilin A1 induces different membrane shapes using a conformational switch that is regulated by phosphorylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 6982-7 | 11.5 | 69 |

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| 47 | βSynuclein oligomers with broken helical conformation form lipoprotein nanoparticles. <i>Journal of Biological Chemistry</i> , 2013 , 288, 17620-30 | 5.4 | 54 |
| 46 | Hydration dynamics as an intrinsic ruler for refining protein structure at lipid membrane interfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 16838-43 | 11.5 | 60 |
| 45 | Computer modeling of nitroxide spin labels on proteins. <i>Biopolymers</i> , 2012 , 97, 35-44 | 2.2 | 50 |
| 44 | Membrane binding and self-association of the epsin N-terminal homology domain. <i>Journal of Molecular Biology</i> , 2012 , 423, 800-17 | 6.5 | 44 |
| 43 | Structural features and domain organization of huntingtin fibrils. <i>Journal of Biological Chemistry</i> , 2012 , 287, 31739-46 | 5.4 | 68 |
| 42 | Remodeling of lipid vesicles into cylindrical micelles by βSynuclein in an extended βhelical conformation. <i>Journal of Biological Chemistry</i> , 2012 , 287, 29301-11 | 5.4 | 86 |
| 41 | Fibril structure of human islet amyloid polypeptide. <i>Journal of Biological Chemistry</i> , 2012 , 287, 5235-41 | 5.4 | 122 |
| 40 | Membrane curvature sensing by amphipathic helices: a single liposome study using βSynuclein and annexin B12. <i>Journal of Biological Chemistry</i> , 2011 , 286, 42603-42614 | 5.4 | 89 |
| 39 | A compact beta model of huntingtin toxicity. <i>Journal of Biological Chemistry</i> , 2011 , 286, 8188-8196 | 5.4 | 47 |
| 38 | Engineering a polarity-sensitive biosensor for time-lapse imaging of apoptotic processes and degeneration. <i>Nature Methods</i> , 2010 , 7, 67-73 | 21.6 | 62 |
| 37 | Stacked sets of parallel, in-register beta-strands of beta2-microglobulin in amyloid fibrils revealed by site-directed spin labeling and chemical labeling. <i>Journal of Biological Chemistry</i> , 2010 , 285, 17137-47 | 5.4 | 54 |
| 36 | Roles of amphipathic helices and the bin/amphiphysin/rvs (BAR) domain of endophilin in membrane curvature generation. <i>Journal of Biological Chemistry</i> , 2010 , 285, 20164-70 | 5.4 | 58 |
| 35 | Multiple modes of endophilin-mediated conversion of lipid vesicles into coated tubes: implications for synaptic endocytosis. <i>Journal of Biological Chemistry</i> , 2010 , 285, 23351-8 | 5.4 | 41 |
| 34 | Membrane curvature induction and tubulation are common features of synucleins and apolipoproteins. <i>Journal of Biological Chemistry</i> , 2010 , 285, 32486-93 | 5.4 | 231 |
| 33 | Soluble and mature amyloid fibrils in drusen deposits 2010 , 51, 1304-10 | | 112 |
| 32 | A combinatorial NMR and EPR approach for evaluating the structural ensemble of partially folded proteins. <i>Journal of the American Chemical Society</i> , 2010 , 132, 8657-68 | 16.4 | 109 |
| 31 | The effect of curcumin on human islet amyloid polypeptide misfolding and toxicity. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2010 , 17, 118-28 | 2.7 | 76 |
| 30 | Fibrils with parallel in-register structure constitute a major class of amyloid fibrils: molecular insights from electron paramagnetic resonance spectroscopy. <i>Quarterly Reviews of Biophysics</i> , 2008 , 41, 265-97 | 7 | 142 |

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|----|---|------|-----|
| 29 | Structure of alpha-helical membrane-bound human islet amyloid polypeptide and its implications for membrane-mediated misfolding. <i>Journal of Biological Chemistry</i> , 2008 , 283, 17205-10 | 5.4 | 153 |
| 28 | Structure of membrane-bound alpha-synuclein from site-directed spin labeling and computational refinement. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 19666-71 | 11.5 | 380 |
| 27 | Formation of soluble amyloid oligomers and amyloid fibrils by the multifunctional protein vitronectin. <i>Molecular Neurodegeneration</i> , 2008 , 3, 16 | 19 | 42 |
| 26 | Structure and analysis of FCHo2 F-BAR domain: a dimerizing and membrane recruitment module that effects membrane curvature. <i>Structure</i> , 2007 , 15, 839-52 | 5.2 | 225 |
| 25 | Investigation of alpha-synuclein fibril structure by site-directed spin labeling. <i>Journal of Biological Chemistry</i> , 2007 , 282, 24970-9 | 5.4 | 200 |
| 24 | Annexin B12 is a sensor of membrane curvature and undergoes major curvature-dependent structural changes. <i>Journal of Biological Chemistry</i> , 2007 , 282, 9996-10004 | 5.4 | 20 |
| 23 | Membrane interaction of islet amyloid polypeptide. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007 , 1768, 2002-9 | 3.8 | 144 |
| 22 | Spin labeling analysis of amyloids and other protein aggregates. <i>Methods in Enzymology</i> , 2006 , 413, 122-39 | 3.7 | 37 |
| 21 | A novel calcium-independent peripheral membrane-bound form of annexin B12. <i>Biochemistry</i> , 2006 , 45, 934-42 | 3.2 | 18 |
| 20 | Mechanism of endophilin N-BAR domain-mediated membrane curvature. <i>EMBO Journal</i> , 2006 , 25, 2898-910 | 11.0 | 437 |
| 19 | Drusen deposits associated with aging and age-related macular degeneration contain nonfibrillar amyloid oligomers. <i>Journal of Clinical Investigation</i> , 2006 , 116, 378-85 | 15.9 | 135 |
| 18 | Calcium- and membrane-induced changes in the structure and dynamics of three helical hairpins in annexin B12. <i>Biochemistry</i> , 2005 , 44, 16435-44 | 3.2 | 9 |
| 17 | Lipid membranes modulate the structure of islet amyloid polypeptide. <i>Biochemistry</i> , 2005 , 44, 12113-9 | 3.2 | 225 |
| 16 | The conserved core domains of annexins A1, A2, A5, and B12 can be divided into two groups with different Ca ²⁺ -dependent membrane-binding properties. <i>Biochemistry</i> , 2005 , 44, 2833-44 | 3.2 | 42 |
| 15 | A helical hairpin region of soluble annexin B12 refolds and forms a continuous transmembrane helix at mildly acidic pH. <i>Journal of Biological Chemistry</i> , 2005 , 280, 32398-404 | 5.4 | 18 |
| 14 | Structure of membrane-bound alpha-synuclein studied by site-directed spin labeling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 8331-6 | 11.5 | 311 |
| 13 | Template-assisted filament growth by parallel stacking of tau. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 10278-83 | 11.5 | 223 |
| 12 | Structure and dynamics of a helical hairpin that mediates calcium-dependent membrane binding of annexin B12. <i>Journal of Biological Chemistry</i> , 2004 , 279, 32492-8 | 5.4 | 18 |

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|----|--|-----|-----|
| 11 | Identifying structural features of fibrillar islet amyloid polypeptide using site-directed spin labeling. <i>Journal of Biological Chemistry</i> , 2004 , 279, 48420-5 | 5.4 | 126 |
| 10 | Structural organization of alpha-synuclein fibrils studied by site-directed spin labeling. <i>Journal of Biological Chemistry</i> , 2003 , 278, 37530-5 | 5.4 | 282 |
| 9 | The Habc domain and the SNARE core complex are connected by a highly flexible linker. <i>Biochemistry</i> , 2003 , 42, 4009-14 | 3.2 | 34 |
| 8 | Global structural changes in annexin 12. The roles of phospholipid, Ca ²⁺ , and pH. <i>Journal of Biological Chemistry</i> , 2003 , 278, 30227-34 | 5.4 | 16 |
| 7 | Structure and dynamics of a helical hairpin and loop region in annexin 12: a site-directed spin labeling study. <i>Biochemistry</i> , 2002 , 41, 1464-73 | 3.2 | 103 |
| 6 | Annexins V and XII insert into bilayers at mildly acidic pH and form ion channels. <i>Biochemistry</i> , 2000 , 39, 3015-22 | 3.2 | 76 |
| 5 | Crystal structures of spin labeled T4 lysozyme mutants: implications for the interpretation of EPR spectra in terms of structure. <i>Biochemistry</i> , 2000 , 39, 8396-405 | 3.2 | 231 |
| 4 | Structural features of the C-terminal domain of bovine rhodopsin: a site-directed spin-labeling study. <i>Biochemistry</i> , 1999 , 38, 7918-24 | 3.2 | 97 |
| 3 | Recent advances in site-directed spin labeling of proteins. <i>Current Opinion in Structural Biology</i> , 1998 , 8, 649-56 | 8.1 | 513 |
| 2 | Membrane-mediated assembly of annexins studied by site-directed spin labeling. <i>Journal of Biological Chemistry</i> , 1998 , 273, 22453-7 | 5.4 | 82 |
| 1 | Huntingtin fibrils with different toxicity, structure, and seeding potential can be reversibly interconverted | | 1 |