

# Sren Roi Midtgaard

## List of Publications by Citations

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69

papers

1,368

citations

23

h-index

34

g-index

80

ext. papers

1,741

ext. citations

5.6

avg, IF

4.65

L-index

#	Paper	IF	Citations
69	Reconciliation of opposing views on membrane-sugar interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 1874-8	11.5	98
68	Elliptical structure of phospholipid bilayer nanodiscs encapsulated by scaffold proteins: casting the roles of the lipids and the protein. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 13713-22	16.4	94
67	High-throughput small angle X-ray scattering from proteins in solution using a microfluidic front-end. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 3648-54	7.8	75
66	Self-assembling peptides form nanodiscs that stabilize membrane proteins. <i>Soft Matter</i> , <b>2014</b> , 10, 738-53	3.6	54
65	Stealth carriers for low-resolution structure determination of membrane proteins in solution. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2014</b> , 70, 317-28		51
64	Small-angle scattering from phospholipid nanodiscs: derivation and refinement of a molecular constrained analytical model form factor. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 3161-70	3.6	49
63	Small-angle scattering gives direct structural information about a membrane protein inside a lipid environment. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2014</b> , 70, 371-83		46
62	Aquaporin-Based Biomimetic Polymeric Membranes: Approaches and Challenges. <i>Membranes</i> , <b>2015</b> , 5, 307-51	3.8	43
61	On the Calculation of SAXS Profiles of Folded and Intrinsically Disordered Proteins from Computer Simulations. <i>Journal of Molecular Biology</i> , <b>2018</b> , 430, 2521-2539	6.5	41
60	WillItFit: a framework for fitting of constrained models to small-angle scattering data. <i>Journal of Applied Crystallography</i> , <b>2013</b> , 46, 1894-1898	3.8	40
59	Combining molecular dynamics simulations with small-angle X-ray and neutron scattering data to study multi-domain proteins in solution. <i>PLoS Computational Biology</i> , <b>2020</b> , 16, e1007870	5	39
58	Structure parameters of synaptic vesicles quantified by small-angle x-ray scattering. <i>Biophysical Journal</i> , <b>2010</b> , 98, 1200-8	2.9	36
57	Small-angle scattering determination of the shape and localization of human cytochrome P450 embedded in a phospholipid nanodisc environment. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2015</b> , 71, 2412-21		35
56	Invisible detergents for structure determination of membrane proteins by small-angle neutron scattering. <i>FEBS Journal</i> , <b>2018</b> , 285, 357-371	5.7	34
55	Peptide-oligonucleotide conjugates as nanoscale building blocks for assembly of an artificial three-helix protein mimic. <i>Nature Communications</i> , <b>2016</b> , 7, 12294	17.4	31
54	A disordered acidic domain in GPIHBP1 harboring a sulfated tyrosine regulates lipoprotein lipase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E6020-E6029	11.5	31
53	Biosynthetic preparation of selectively deuterated phosphatidylcholine in genetically modified <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2015</b> , 99, 241-54	5.7	28

52	An intermolecular binding mechanism involving multiple LysM domains mediates carbohydrate recognition by an endopeptidase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2015</b> , 71, 592-605		28
51	Introducing SEC-SANS for studies of complex self-organized biological systems. <i>Acta Crystallographica Section D: Structural Biology</i> , <b>2018</b> , 74, 1178-1191	5.5	27
50	Selecting analytical tools for characterization of polymersomes in aqueous solution. <i>RSC Advances</i> , <b>2015</b> , 5, 79924-79946	3.7	25
49	Dimeric peptides with three different linkers self-assemble with phospholipids to form peptide nanodiscs that stabilize membrane proteins. <i>Soft Matter</i> , <b>2016</b> , 12, 5937-49	3.6	25
48	Structure of Dimeric and Tetrameric Complexes of the BAR Domain Protein PICK1 Determined by Small-Angle X-Ray Scattering. <i>Structure</i> , <b>2015</b> , 23, 1258-1270	5.2	24
47	Comprehensive Study of the Self-Assembly of Phospholipid Nanodiscs: What Determines Their Shape and Stoichiometry?. <i>Langmuir</i> , <b>2018</b> , 34, 12569-12582	4	24
46	Crystal structure of the TLDC domain of oxidation resistance protein 2 from zebrafish. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2012</b> , 80, 1694-8	4.2	23
45	Selective N-terminal acylation of peptides and proteins with a Gly-His tag sequence. <i>Nature Communications</i> , <b>2018</b> , 9, 3307	17.4	22
44	Circularized and solubility-enhanced MSPs facilitate simple and high-yield production of stable nanodiscs for studies of membrane proteins in solution. <i>FEBS Journal</i> , <b>2019</b> , 286, 1734-1751	5.7	21
43	Small-angle X-ray scattering of the cholesterol incorporation into human ApoA1-POPC discoidal particles. <i>Biophysical Journal</i> , <b>2015</b> , 109, 308-18	2.9	21
42	Structure and dynamics of a nanodisc by integrating NMR, SAXS and SANS experiments with molecular dynamics simulations. <i>ELife</i> , <b>2020</b> , 9,	8.9	20
41	GUB06-046, a novel secretin/glucagon-like peptide 1 co-agonist, decreases food intake, improves glycemic control, and preserves beta cell mass in diabetic mice. <i>Journal of Peptide Science</i> , <b>2017</b> , 23, 845-854	2.1	19
40	Size-exclusion chromatography small-angle X-ray scattering of water soluble proteins on a laboratory instrument. <i>Journal of Applied Crystallography</i> , <b>2018</b> , 51, 1623-1632	3.8	18
39	Towards biomimics of cell membranes: Structural effect of phosphatidylinositol triphosphate (PIP) on a lipid bilayer. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2019</b> , 173, 202-209	6	18
38	Quantification of the information in small-angle scattering data. <i>Journal of Applied Crystallography</i> , <b>2014</b> , 47, 2000-2010	3.8	15
37	Structure and Dynamics of the Central Lipid Pool and Proteins of the Bacterial Holo-Translocon. <i>Biophysical Journal</i> , <b>2019</b> , 116, 1931-1940	2.9	14
36	Analysis of small-angle scattering data using model fitting and Bayesian regularization. <i>Journal of Applied Crystallography</i> , <b>2018</b> , 51, 1151-1161	3.8	14
35	Aescin-Induced Conversion of Gel-Phase Lipid Membranes into Bicelle-like Lipid Nanoparticles. <i>Langmuir</i> , <b>2019</b> , 35, 16244-16255	4	14

34	PET/CT Based In Vivo Evaluation of <sup>64</sup> Cu Labelled Nanodiscs in Tumor Bearing Mice. <i>PLoS ONE</i> , <b>2015</b> , 10, e0129310	3.7	12
33	Metal ion controlled self-assembly of a chemically reengineered protein drug studied by small-angle X-ray scattering. <i>Langmuir</i> , <b>2012</b> , 28, 12159-70	4	12
32	3- Instead of 4-helix formation in a de novo designed protein in solution revealed by small-angle X-ray scattering. <i>ChemBioChem</i> , <b>2008</b> , 9, 2663-72	3.8	12
31	A high-affinity, bivalent PDZ domain inhibitor complexes PICK1 to alleviate neuropathic pain. <i>EMBO Molecular Medicine</i> , <b>2020</b> , 12, e11248	12	11
30	Perfluoroalkyl chains direct novel self-assembly of insulin. <i>Langmuir</i> , <b>2012</b> , 28, 593-603	4	11
29	Self-assembly of designed coiled coil peptides studied by small-angle X-ray scattering and analytical ultracentrifugation. <i>Journal of Peptide Science</i> , <b>2013</b> , 19, 283-92	2.1	10
28	Folding Topology of a Short Coiled-Coil Peptide Structure Templated by an Oligonucleotide Triplex. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 9297-9305	4.8	8
27	Assessment of structure factors for analysis of small-angle scattering data from desired or undesired aggregates. <i>Journal of Applied Crystallography</i> , <b>2020</b> , 53, 991-1005	3.8	8
26	A compact time-of-flight SANS instrument optimised for measurements of small sample volumes at the European Spallation Source. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2014</b> , 764, 133-141	1.2	7
25	Small-angle neutron scattering studies on the AMPA receptor GluA2 in the resting, AMPA-bound and GYKI-53655-bound states. <i>IUCrJ</i> , <b>2018</b> , 5, 780-793	4.7	7
24	Peptide Disc Mediated Control of Membrane Protein Orientation in Supported Lipid Bilayers for Surface-Sensitive Investigations. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 1081-1088	7.8	7
23	Structural and Biophysical Properties of Supercharged and Circularized Nanodiscs. <i>Langmuir</i> , <b>2021</b> , 37, 6681-6690	4	6
22	Order and disorder-An integrative structure of the full-length human growth hormone receptor. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	6
21	Distinct $\beta$ -Synuclein:Lipid Co-Structure Complexes Affect Amyloid Nucleation through Fibril Mimetic Behavior. <i>Biochemistry</i> , <b>2019</b> , 58, 5052-5065	3.2	5
20	Aescin - a natural soap for the formation of lipid nanodiscs with tunable size. <i>Soft Matter</i> , <b>2021</b> , 17, 18883-1900	19.0	5
19	Response to The Challenges of Polydisperse SAXS Data Analysis: Two Different SAXS Studies of PICK1 Produce Different Structural Models. <i>Structure</i> , <b>2015</b> , 23, 1969-70	5.2	4
18	Dispersion state of TiO <sub>2</sub> pigment particles studied by ultra-small-angle X-ray scattering revealing dependence on dispersant but limited change during drying of paint coating. <i>Progress in Organic Coatings</i> , <b>2020</b> , 142, 105590	4.8	4
17	The intracellular lipid-binding domain of human Na/H exchanger 1 forms a lipid-protein co-structure essential for activity. <i>Communications Biology</i> , <b>2020</b> , 3, 731	6.7	4

16	Peptide discs as precursors of biologically relevant supported lipid bilayers. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 585, 376-385	9.3	4
15	Probing solution structure of the pentameric ligand-gated ion channel GLIC by small-angle neutron scattering		3
14	Lipid-bound ApoE3 self-assemble into elliptical disc-shaped particles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2021</b> , 1863, 183495	3.8	3
13	Properdin oligomers adopt rigid extended conformations supporting function. <i>ELife</i> , <b>2021</b> , 10,	8.9	3
12	Probing solution structure of the pentameric ligand-gated ion channel GLIC by small-angle neutron scattering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	3
11	PSX, ProteinSolvent Exchange: software for calculation of deuterium-exchange effects in small-angle neutron scattering measurements from protein coordinates. <i>Journal of Applied Crystallography</i> , <b>2019</b> , 52, 1427-1436	3.8	2
10	Structural Insight into the Self-Assembly of a Pharmaceutically Optimized Insulin Analogue Obtained by Small-Angle X-ray Scattering. <i>Molecular Pharmaceutics</i> , <b>2020</b> , 17, 2809-2820	5.6	2
9	A de Novo-Designed Monomeric, Compact Three-Helix-Bundle Protein on a Carbohydrate Template. <i>ChemBioChem</i> , <b>2015</b> , 16, 1905-1918	3.8	2
8	Combining molecular dynamics simulations with small-angle X-ray and neutron scattering data to study multi-domain proteins in solution		2
7	Protocol for Investigating the Interactions Between Intrinsically Disordered Proteins and Membranes by Neutron Reflectometry. <i>Methods in Molecular Biology</i> , <b>2020</b> , 2141, 569-584	1.4	2
6	Efficient refolding and reconstitution of tissue factor into nanodiscs facilitates structural investigation of a multicomponent system on a lipid bilayer. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2020</b> , 1862, 183214	3.8	1
5	Order and disorder in an integrative structure of the full-length human growth hormone receptor		1
4	Structure and dynamics of a nanodisc by integrating NMR, SAXS and SANS experiments with molecular dynamics simulations		1
3	Ab initio determination of the shape of membrane proteins in a nanodisc. <i>Acta Crystallographica Section D: Structural Biology</i> , <b>2021</b> , 77, 176-193	5.5	1
2	Global fitting of multiple data frames from SEC-SAXS to investigate the structure of next-generation nanodiscs.. <i>Acta Crystallographica Section D: Structural Biology</i> , <b>2022</b> , 78, 483-493	5.5	1
1	Oligomerization of Pharmaceutically Relevant Insulin Analogues for Varying Concentration and Salinity Revealed by Small-Angle X-ray Scattering. <i>Molecular Pharmaceutics</i> , <b>2021</b> , 18, 3272-3280	5.6	