

Søren Roi Midtgaard

List of Publications by Year in descending order

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68
papers

1,971
citations

201658

27
h-index

289230

40
g-index

80
all docs

80
docs citations

80
times ranked

2669
citing authors

#	ARTICLE	IF	CITATIONS
1	Mg ²⁺ -dependent conformational equilibria in CorA and an integrated view on transport regulation. <i>ELife</i> , 2022, 11, .	6.0	10
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> , 2022, 78, 483-493.	2.3	3
3	Structural model of tissue factor (TF) and TF-factor VIIa complex in a lipid membrane: A combined experimental and computational study. <i>Journal of Colloid and Interface Science</i> , 2022, 623, 294-305.	9.4	1
4	Lipid-bound ApoE3 self-assemble into elliptical disc-shaped particles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2021, 1863, 183495.	2.6	3
5	Properdin oligomers adopt rigid extended conformations supporting function. <i>ELife</i> , 2021, 10, .	6.0	10
6	Ab initio determination of the shape of membrane proteins in a nanodisc. <i>Acta Crystallographica Section D: Structural Biology</i> , 2021, 77, 176-193.	2.3	4
7	Peptide discs as precursors of biologically relevant supported lipid bilayers. <i>Journal of Colloid and Interface Science</i> , 2021, 585, 376-385.	9.4	8
8	Structural and Biophysical Properties of Supercharged and Circularized Nanodiscs. <i>Langmuir</i> , 2021, 37, 6681-6690.	3.5	13
9	Order and disorder: An integrative structure of the full-length human growth hormone receptor. <i>Science Advances</i> , 2021, 7, .	10.3	25
10	Oligomerization of Pharmaceutically Relevant Insulin Analogues for Varying Concentration and Salinity Revealed by Small-Angle X-ray Scattering. <i>Molecular Pharmaceutics</i> , 2021, 18, 3272-3280.	4.6	0
11	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> , 2021, 118, .	7.1	7
12	Aescin: a natural soap for the formation of lipid nanodiscs with tunable size. <i>Soft Matter</i> , 2021, 17, 1888-1900.	2.7	10
13	Peptide Disc Mediated Control of Membrane Protein Orientation in Supported Lipid Bilayers for Surface-Sensitive Investigations. <i>Analytical Chemistry</i> , 2020, 92, 1081-1088.	6.5	14
14	Assessment of structure factors for analysis of small-angle scattering data from desired or undesired aggregates. <i>Journal of Applied Crystallography</i> , 2020, 53, 991-1005.	4.5	26
15	The intracellular lipid-binding domain of human Na ⁺ /H ⁺ exchanger 1 forms a lipid-protein co-structure essential for activity. <i>Communications Biology</i> , 2020, 3, 731.	4.4	11
16	A high-affinity, bivalent PDZ domain inhibitor complexes PICK1 to alleviate neuropathic pain. <i>EMBO Molecular Medicine</i> , 2020, 12, e11248.	6.9	20
17	Structural Insight into the Self-Assembly of a Pharmaceutically Optimized Insulin Analogue Obtained by Small-Angle X-ray Scattering. <i>Molecular Pharmaceutics</i> , 2020, 17, 2809-2820.	4.6	3
18	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> , 2020, 1862, 183214.	2.6	3

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19	Dispersion state of TiO ₂ 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> , 2020, 142, 105590.	3.9	13
20	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> , 2020, 16, e1007870.	3.2	76
21	Protocol for Investigating the Interactions Between Intrinsically Disordered Proteins and Membranes by Neutron Reflectometry. <i>Methods in Molecular Biology</i> , 2020, 2141, 569-584.	0.9	2
22	Structure and dynamics of a nanodisc by integrating NMR, SAXS and SANS experiments with molecular dynamics simulations. <i>ELife</i> , 2020, 9, .	6.0	49
23	Aescin-Induced Conversion of Gel-Phase Lipid Membranes into Bicelle-like Lipid Nanoparticles. <i>Langmuir</i> , 2019, 35, 16244-16255.	3.5	22
24	PSX, Proteinâ€“Solvent Exchange: software for calculation of deuterium-exchange effects in small-angle neutron scattering measurements from protein coordinates. <i>Journal of Applied Crystallography</i> , 2019, 52, 1427-1436.	4.5	5
25	Circularized and solubilityâ€“enhanced <scp>MSP</scp>s facilitate simple and highâ€“yield production of stable nanodiscs for studies of membrane proteins in solution. <i>FEBS Journal</i> , 2019, 286, 1734-1751.	4.7	36
26	Structure and Dynamics of the Central Lipid Pool and Proteins of the Bacterial Holo-Translocon. <i>Biophysical Journal</i> , 2019, 116, 1931-1940.	0.5	22
27	Distinct β -Synuclein:Lipid Co-Structure Complexes Affect Amyloid Nucleation through Fibril Mimetic Behavior. <i>Biochemistry</i> , 2019, 58, 5052-5065.	2.5	12
28	Towards biomimics of cell membranes: Structural effect of phosphatidylinositol triphosphate (PIP ₃) on a lipid bilayer. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 173, 202-209.	5.0	22
29	On the Calculation of SAXS Profiles of Folded and Intrinsically Disordered Proteins from Computer Simulations. <i>Journal of Molecular Biology</i> , 2018, 430, 2521-2539.	4.2	64
30	Invisible detergents for structure determination of membrane proteins by smallâ€“angle neutron scattering. <i>FEBS Journal</i> , 2018, 285, 357-371.	4.7	52
31	Comprehensive Study of the Self-Assembly of Phospholipid Nanodiscs: What Determines Their Shape and Stoichiometry?. <i>Langmuir</i> , 2018, 34, 12569-12582.	3.5	30
32	Introducing SECâ€“SANS for studies of complex self-organized biological systems. <i>Acta Crystallographica Section D: Structural Biology</i> , 2018, 74, 1178-1191.	2.3	42
33	Analysis of small-angle scattering data using model fitting and Bayesian regularization. <i>Journal of Applied Crystallography</i> , 2018, 51, 1151-1161.	4.5	16
34	Selective N-terminal acylation of peptides and proteins with a Gly-His tag sequence. <i>Nature Communications</i> , 2018, 9, 3307.	12.8	45
35	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> , 2018, 115, E6020-E6029.	7.1	51
36	Size-exclusion chromatography small-angle X-ray scattering of water soluble proteins on a laboratory instrument. <i>Journal of Applied Crystallography</i> , 2018, 51, 1623-1632.	4.5	36

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37	Small-angle neutron scattering studies on the AMPA receptor GluA2 in the resting, AMPA-bound and GYKI-53655-bound states. <i>IUCr</i> , 2018, 5, 780-793.	2.2	9
38	Folding Topology of a Short Coiled-Coil Peptide Structure Templated by an Oligonucleotide Triplex. <i>Chemistry - A European Journal</i> , 2017, 23, 9297-9305.	3.3	13
39	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> , 2017, 23, 845-854.	1.4	22
40	Peptide-oligonucleotide conjugates as nanoscale building blocks for assembly of an artificial three-helix protein mimic. <i>Nature Communications</i> , 2016, 7, 12294.	12.8	39
41	Dimeric peptides with three different linkers self-assemble with phospholipids to form peptide nanodiscs that stabilize membrane proteins. <i>Soft Matter</i> , 2016, 12, 5937-5949.	2.7	37
42	A de Novo-Designed Monomeric, Compact Three-Helix Bundle Protein on a Carbohydrate Template. <i>ChemBioChem</i> , 2015, 16, 1905-1918.	2.6	2
43	Aquaporin-Based Biomimetic Polymeric Membranes: Approaches and Challenges. <i>Membranes</i> , 2015, 5, 307-351.	3.0	54
44	PET/CT Based In Vivo Evaluation of ⁶⁴ Cu Labelled Nanodiscs in Tumor Bearing Mice. <i>PLoS ONE</i> , 2015, 10, e0129310.	2.5	22
45	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> , 2015, 71, 2412-2421.	2.5	47
46	Biosynthetic preparation of selectively deuterated phosphatidylcholine in genetically modified <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 241-254.	3.6	31
47	An intermolecular binding mechanism involving multiple LysM domains mediates carbohydrate recognition by an endopeptidase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 592-605.	2.5	34
48	Structure of Dimeric and Tetrameric Complexes of the BAR Domain Protein PICK1 Determined by Small-Angle X-Ray Scattering. <i>Structure</i> , 2015, 23, 1258-1270.	3.3	34
49	Response to The Challenges of Polydisperse SAXS Data Analysis: Two Different SAXS Studies of PICK1 Produce Different Structural Models. <i>Structure</i> , 2015, 23, 1969-1970.	3.3	4
50	Small-Angle X-Ray Scattering of the Cholesterol Incorporation into Human ApoA1-POPC Discoidal Particles. <i>Biophysical Journal</i> , 2015, 109, 308-318.	0.5	26
51	Selecting analytical tools for characterization of polymersomes in aqueous solution. <i>RSC Advances</i> , 2015, 5, 79924-79946.	3.6	38
52	Quantification of the information in small-angle scattering data. <i>Journal of Applied Crystallography</i> , 2014, 47, 2000-2010.	4.5	19
53	Small-angle scattering gives direct structural information about a membrane protein inside a lipid environment. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 371-383.	2.5	58
54	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> , 2014, 764, 133-141.	1.6	9

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55	Self-assembling peptides form nanodiscs that stabilize membrane proteins. <i>Soft Matter</i> , 2014, 10, 738-752.	2.7	65
56	Stealth carriers for low-resolution structure determination of membrane proteins in solution. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 317-328.	2.5	63
57	Self-assembly of designed coiled coil peptides studied by small-angle X-ray scattering and analytical ultracentrifugation. <i>Journal of Peptide Science</i> , 2013, 19, 283-292.	1.4	10
58	<i>WillItFit</i> : a framework for fitting of constrained models to small-angle scattering data. <i>Journal of Applied Crystallography</i> , 2013, 46, 1894-1898.	4.5	61
59	Lipid-Protein Interactions in Nanodiscs: How to Enhance Stability. <i>Biophysical Journal</i> , 2012, 102, 236a.	0.5	0
60	Perfluoroalkyl Chains Direct Novel Self-Assembly of Insulin. <i>Langmuir</i> , 2012, 28, 593-603.	3.5	11
61	Metal Ion Controlled Self-Assembly of a Chemically Reengineered Protein Drug Studied by Small-Angle X-ray Scattering. <i>Langmuir</i> , 2012, 28, 12159-12170.	3.5	14
62	Crystal structure of the TLDC domain of oxidation resistance protein 2 from zebrafish. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012, 80, 1694-1698.	2.6	31
63	Small-angle scattering from phospholipid nanodiscs: derivation and refinement of a molecular constrained analytical model form factor. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 3161-3170.	2.8	57
64	Reconciliation of opposing views on membrane-sugar interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 1874-1878.	7.1	126
65	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> , 2010, 132, 13713-13722.	13.7	117
66	Structure Parameters of Synaptic Vesicles Quantified by Small-Angle X-Ray Scattering. <i>Biophysical Journal</i> , 2010, 98, 1200-1208.	0.5	43
67	Instead of Helix Formation in a De Novo Designed Protein in Solution Revealed by Small-Angle X-ray Scattering. <i>ChemBioChem</i> , 2008, 9, 2663-2672.	2.6	12
68	High-Throughput Small Angle X-ray Scattering from Proteins in Solution Using a Microfluidic Front-End. <i>Analytical Chemistry</i> , 2008, 80, 3648-3654.	6.5	88