Lise Arleth

List of Publications by Year
in descending order

108 papers	3,417 citations	126858 33 h-index	175177 52 g-index
120 all docs	120 docs citations	120 times ranked	4465 citing authors

#	Article	IF	Citations
1	In vitro characterization of PEGylated phospholipid micelles for improved drug solubilization: Effects of PEG chain length and PC incorporation. Journal of Pharmaceutical Sciences, 2004, 93, 2476-2487.	1.6	225
2	BioXTAS RAW, a software program for high-throughput automated small-angle X-ray scattering data reduction and preliminary analysis. Journal of Applied Crystallography, 2009, 42, 959-964.	1.9	203
3	Reconciliation of opposing views on membraneâ€“sugar interactions. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1874-1878.	3.3	126
4	Elliptical Structure of Phospholipid Bilayer Nanodiscs Encapsulated by Scaffold Proteins: Casting the Roles of the Lipids and the Protein. Journal of the American Chemical Society, 2010, 132, 13713-13722.	6.6	117
5	Structural Development of Self Nano Emulsifying Drug Delivery Systems (SNEDDS) During In Vitro Lipid Digestion Monitored by Small-angle X-ray Scattering. Pharmaceutical Research, 2007, 24, 1844-1853.	1.7	109
6	Small-Angle Neutron Scattering Study of the Growth Behavior, Flexibility, and Intermicellar Interactions of Wormlike SDS Micelles in NaBr Aqueous Solutions. Langmuir, 2002, 18, 5343-5353.	1.6	102
7	Recent advances in X-ray compatible microfluidics for applications in soft materials and life sciences. Lab on A Chip, 2016, 16, 4263-4295.	3.1	91
8	High-Throughput Small Angle X-ray Scattering from Proteins in Solution Using a Microfluidic Front-End. Analytical Chemistry, 2008, 80, 3648-3654.	3.2	88
9	Analysis of proteinâ€“surfactant interactionsâ€”a titration calorimetric and fluorescence spectroscopic investigation of interactions between Humicola insolens cutinase and an anionic surfactant. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2005, 1752, 124-132.	1.1	79
10	Combining molecular dynamics simulations with small-angle X-ray and neutron scattering data to study multi-domain proteins in solution. PLoS Computational Biology, 2020, 16, e1007870.	1.5	76
11	Detailed Structure of Hairy Mixed Micelles Formed by Phosphatidylcholine and PEGylated Phospholipids in Aqueous Media. Langmuir, 2005, 21, 3279-3290.	1.6	68
12	Droplet polydispersity and shape fluctuations in AOT [bis(2-ethylhexyl)sulfosuccinate sodium salt] microemulsions studied by contrast variation small-angle neutron scattering. Physical Review E, 2001, 63, 061406.	0.8	65
13	Self-assembling peptides form nanodiscs that stabilize membrane proteins. Soft Matter, 2014, 10, 738-752.	1.2	65
14	On the Calculation of SAXS Profiles of Folded and Intrinsically Disordered Proteins from Computer Simulations. Journal of Molecular Biology, 2018, 430, 2521-2539.	2.0	64
15	Stealth carriers for low-resolution structure determination of membrane proteins in solution. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 317-328.	2.5	63
16	A new small-angle X-ray scattering set-up on theÂcrystallography beamline I711 at MAX-lab. Journal of Synchrotron Radiation, 2009, 16, 498-504.	1.0	62
17	Volume transition and internal structures of small poly(N-isopropylacrylamide) microgels. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 849-860.	2.4	61
18	WillItFit: a framework for fitting of constrained models to small-angle scattering data. Journal of Applied Crystallography, 2013, 46, 1894-1898.	1.9	61

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19	Characterization of Prototype Self-Nanoemulsifying Formulations of Lipophilic Compounds. Journal of Pharmaceutical Sciences, 2007, 96, 876-892.	1.6	60
20	Small-angle scattering gives direct structural information about a membrane protein inside a lipid environment. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 371-383.	2.5	58
21	Small-angle scattering from phospholipid nanodiscs: derivation and refinement of a molecular constrained analytical model form factor. Physical Chemistry Chemical Physics, 2011, 13, 3161-3170.	1.3	57
22	Invisible detergents for structure determination of membrane proteins by smallâ€angle neutron scattering. FEBS Journal, 2018, 285, 357-371.	2.2	52
23	Structure and dynamics of a nanodisc by integrating NMR, SAXS and SANS experiments with molecular dynamics simulations. ELife, 2020, 9, .	2.8	49
24	Small-angle scattering determination of the shape and localization of human cytochrome P450 embedded in a phospholipid nanodisc environment. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 2412-2421.	2.5	47
25	Growth Behavior of Mixed Wormlike Micelles:Â a Small-Angle Scattering Study of the Lecithinâ^'Bile Salt System. Langmuir, 2003, 19, 4096-4104.	1.6	43
26	Structure Parameters of Synaptic Vesicles Quantified by Small-Angle X-Ray Scattering. Biophysical Journal, 2010, 98, 1200-1208.	0.2	43
27	Introducing SECâ€“SANS for studies of complex self-organized biological systems. Acta Crystallographica Section D: Structural Biology, 2018, 74, 1178-1191.	1.1	42
28	Interrelationships of Glycosylation and Aggregation Kinetics for Peniophora lycii Phytase. Biochemistry, 2006, 45, 5057-5066.	1.2	39
29	Gaussian random fields with two level-cutsâ€"Model for asymmetric microemulsions with nonzero spontaneous curvature?. Journal of Chemical Physics, 2001, 115, 3923-3936.	1.2	37
30	Dimeric peptides with three different linkers self-assemble with phospholipids to form peptide nanodiscs that stabilize membrane proteins. Soft Matter, 2016, 12, 5937-5949.	1.2	37
31	Circularized and solubilityâ€enhanced <scp>MSP</scp>s facilitate simple and highâ€yield production of stable nanodiscs for studies of membrane proteins in solution. FEBS Journal, 2019, 286, 1734-1751.	2.2	36
32	Size-exclusion chromatography small-angle X-ray scattering of water soluble proteins on a laboratory instrument. Journal of Applied Crystallography, 2018, 51, 1623-1632.	1.9	36
33	Mesoscopic modelling of frustration in microemulsions. Physical Chemistry Chemical Physics, 2013, 15, 7133.	1.3	35
34	Structure of Dimeric and Tetrameric Complexes of the BAR Domain Protein PICK1 Determined by Small-Angle X-Ray Scattering. Structure, 2015, 23, 1258-1270.	1.6	34
35	Interactions ofHumicola insolensCutinase with an Anionic Surfactant Studied by Small-Angle Neutron Scattering and Isothermal Titration Calorimetry. Langmuir, 2005, 21, 4299-4307.	1.6	33
36	Automated microfluidic sample-preparation platform for high-throughput structural investigation of proteins by small-angle X-ray scattering. Journal of Applied Crystallography, 2011, 44, 1090-1099.	1.9	31

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37	Biosynthetic preparation of selectively deuterated phosphatidylcholine in genetically modified Escherichia coli. Applied Microbiology and Biotechnology, 2015, 99, 241-254.	1.7	31
38	Comprehensive Study of the Self-Assembly of Phospholipid Nanodiscs: What Determines Their Shape and Stoichiometry?. Langmuir, 2018, 34, 12569-12582.	1.6	30
39	Structure and crystallinity of water dispersible photoactive nanoparticles for organic solar cells. Journal of Materials Chemistry A, 2015, 3, 17022-17031.	5.2	29
40	Small-Angle Scattering Study of TAC8:Â A Surfactant with Cation Complexing Potential. Langmuir, 1997, 13, 1887-1896.	1.6	27
41	Structure of Immune Stimulating Complex Matrices and Immune Stimulating Complexes in Suspension Determined by Small-Angle X-Ray Scattering. Biophysical Journal, 2012, 102, 2372-2380.	0.2	27
42	Small-Angle X-Ray Scattering of the Cholesterol Incorporation into Human ApoA1-POPC Discoidal Particles. Biophysical Journal, 2015, 109, 308-318.	0.2	26
43	Assessment of structure factors for analysis of small-angle scattering data from desired or undesired aggregates. Journal of Applied Crystallography, 2020, 53, 991-1005.	1.9	26
44	Order and disorderâ€"An integrative structure of the full-length human growth hormone receptor. Science Advances, 2021, 7, .	4.7	25
45	Electrostastic Control of Spontaneous Curvature in Catanionic Reverse Micelles. Langmuir, 2007, 23, 9983-9989.	1.6	23
46	PET/CT Based In Vivo Evaluation of 64Cu Labelled Nanodiscs in Tumor Bearing Mice. PLoS ONE, 2015, 10, e0129310.	1.1	22
47	Aescin-Induced Conversion of Gel-Phase Lipid Membranes into Bicelle-like Lipid Nanoparticles. Langmuir, 2019, 35, 16244-16255.	1.6	22
48	Structure and Dynamics of the Central Lipid Pool and Proteins of the Bacterial Holo-Translocon. Biophysical Journal, 2019, 116, 1931-1940.	0.2	22
49	Towards biomimics of cell membranes: Structural effect of phosphatidylinositol triphosphate (PIP3) on a lipid bilayer. Colloids and Surfaces B: Biointerfaces, 2019, 173, 202-209.	2.5	22
50	Unusually large acrylamide induced effect on the droplet size in AOT/Brij30 water-in-oil microemulsions. Journal of Colloid and Interface Science, 2007, 306, 143-153.	5.0	21
51	Interrelationship of Steric Stabilization and Self-Crowding of a Glycosylated Protein. Biophysical Journal, 2009, 97, 1445-1453.	0.2	21
52	Investigating the role of anionic surfactant and polymer morphology on the environmental stress cracking (ESC) of high-density polyethylene. Polymer Degradation and Stability, 2005, 89, 442-453.	2.7	20
53	Phase Behavior, Topology, and Growth of Neutral Catanionic Reverse Micelles. Langmuir, 2006, 22, 8017-8028.	1.6	20
54	Predicting for thermodynamic instabilities in water/oil/surfactant microemulsions: A mesoscopic modelling approach. Journal of Chemical Physics, 2014, 140, 164711.	1.2	20

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55	Orchestration of signaling by structural disorder in class 1 cytokine receptors. Cell Communication and Signaling, 2020, 18, 132.	2.7	20
56	A highâ€affinity, bivalent <scp>PDZ</scp> domain inhibitor complexes <scp>PICK</scp> 1 to alleviate neuropathic pain. EMBO Molecular Medicine, 2020, 12, e11248.	3.3	20
57	Quantification of the information in small-angle scattering data. Journal of Applied Crystallography, 2014, 47, 2000-2010.	1.9	19
58	The influence of pH, protein concentration and calcium ratio on the formation and structure of nanotubes from partially hydrolyzed bovine Î±-lactalbumin. Soft Matter, 2019, 15, 4787-4796.	1.2	19
59	Small-angle X-ray scattering studies of metastable intermediates of ?-lactoglobulin isolated after heat-induced aggregation. Biopolymers, 2003, 70, 377-390.	1.2	18
60	An analytical model for the small-angle scattering of polyethylene glycol-modified liposomes. Journal of Applied Crystallography, 2010, 43, 1084-1091.	1.9	18
61	Aligning Nanodiscs at the Airâ€“Water Interface, a Neutron Reflectivity Study. Langmuir, 2011, 27, 15065-15073.	1.6	18
62	Analysis of small-angle scattering data using model fitting and Bayesian regularization. Journal of Applied Crystallography, 2018, 51, 1151-1161.	1.9	16
63	Assembly of Capsids from Hepatitis B Virus Core Protein Progresses through Highly Populated Intermediates in the Presence and Absence of RNA. ACS Nano, 2020, 14, 10226-10238.	7.3	16
64	Fluorescent gel particles in the nanometer range for detection of metabolites in living cells. Polymers for Advanced Technologies, 2006, 17, 790-793.	1.6	15
65	The Effect of Glycosylation on Interparticle Interactions and Dimensions of Native and Denatured Phytase. Biophysical Journal, 2009, 96, 153-161.	0.2	15
66	Formation of nanotubes and gels at a broad pH range upon partial hydrolysis of bovine Î±-lactalbumin. International Dairy Journal, 2016, 52, 72-81.	1.5	15
67	Metal Ion Controlled Self-Assembly of a Chemically Reengineered Protein Drug Studied by Small-Angle X-ray Scattering. Langmuir, 2012, 28, 12159-12170.	1.6	14
68	Peptide Disc Mediated Control of Membrane Protein Orientation in Supported Lipid Bilayers for Surface-Sensitive Investigations. Analytical Chemistry, 2020, 92, 1081-1088.	3.2	14
69	Scattering vector dependence of the small-angle scattering from mixtures of hydrogenated and deuterated organic solvents. Journal of Applied Crystallography, 2000, 33, 650-652.	1.9	13
70	Block-Copolymer Micro-emulsion with Solvent-Induced Segregation. Langmuir, 2007, 23, 2117-2125.	1.6	13
71	Dispersion state of TiO2 pigment particles studied by ultra-small-angle X-ray scattering revealing dependence on dispersant but limited change during drying of paint coating. Progress in Organic Coatings, 2020, 142, 105590.	1.9	13
72	Structural and Biophysical Properties of Supercharged and Circularized Nanodiscs. Langmuir, 2021, 37, 6681-6690.	1.6	13

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73	3â€•Instead of 4â€•Helix Formation in a De Novo Designed Protein in Solution Revealed by Smallâ€‐Angle Xâ€‐ray Scattering. ChemBioChem, 2008, 9, 2663-2672.	1.3	12
74	Binding of the N-Terminal Domain of the Lactococcal Bacteriophage TP901-1 CI Repressor to Its Target DNA: A Crystallography, Small Angle Scattering, and Nuclear Magnetic Resonance Study. Biochemistry, 2013, 52, 6892-6904.	1.2	12
75	Distinct Î±-Synuclein:Lipid Co-Structure Complexes Affect Amyloid Nucleation through Fibril Mimetic Behavior. Biochemistry, 2019, 58, 5052-5065.	1.2	12
76	Perfluoroalkyl Chains Direct Novel Self-Assembly of Insulin. Langmuir, 2012, 28, 593-603.	1.6	11
77	Construction of Insulin 18â€mer Nanoassemblies Driven by Coordination to Iron(II) and Zinc(II) Ions at Distinct Sites. Angewandte Chemie - International Edition, 2016, 55, 2378-2381.	7.2	11
78	The intracellular lipid-binding domain of human Na+/H+ exchanger 1 forms a lipid-protein co-structure essential for activity. Communications Biology, 2020, 3, 731.	2.0	11
79	Selfâ€assembly of designed coiled coil peptides studied by smallâ€angle Xâ€ray scattering and analytical ultracentrifugation. Journal of Peptide Science, 2013, 19, 283-292.	0.8	10
80	Properdin oligomers adopt rigid extended conformations supporting function. ELife, 2021, 10, .	2.8	10
81	Aescin â€“ a natural soap for the formation of lipid nanodiscs with tunable size. Soft Matter, 2021, 17, 1888-1900.	1.2	10
82	Mg2+-dependent conformational equilibria in CorA and an integrated view on transport regulation. ELife, 2022, 11, .	2.8	10
83	A compact time-of-flight SANS instrument optimised for measurements of small sample volumes at the European Spallation Source. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 764, 133-141.	0.7	9
84	Small-angle neutron scattering studies on the AMPA receptor GluA2 in the resting, AMPA-bound and GYKI-53655-bound states. IUCrJ, 2018, 5, 780-793.	1.0	9
85	Peptide discs as precursors of biologically relevant supported lipid bilayers. Journal of Colloid and Interface Science, 2021, 585, 376-385.	5.0	8
86	Probing solution structure of the pentameric ligand-gated ion channel GLIC by small-angle neutron scattering. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	7
87	Semi-empirical Analysis of Complex ITC Data from Proteinâ€“Surfactant Interactions. Analytical Chemistry, 2021, 93, 12698-12706.	3.2	6
88	PSX, Proteinâ€“Solvent Exchange: software for calculation of deuterium-exchange effects in small-angle neutron scattering measurements from protein coordinates. Journal of Applied Crystallography, 2019, 52, 1427-1436.	1.9	5
89	The microscopic distribution of hydrophilic polymers in interpenetrating polymer networks (IPNs) of medical grade silicone. Polymer, 2021, 224, 123671.	1.8	5
90	Response to The Challenges of Polydisperse SAXS Data Analysis: Two Different SAXS Studies of PICK1 Produce Different Structural Models. Structure, 2015, 23, 1969-1970.	1.6	4

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91	Ab initio determination of the shape of membrane proteins in a nanodisc. Acta Crystallographica Section D: Structural Biology, 2021, 77, 176-193.	1.1	4
92	Construction of Insulin 18â€mer Nanoassemblies Driven by Coordination to Iron(II) and Zinc(II) Ions at Distinct Sites. Angewandte Chemie, 2016, 128, 2424-2427.	1.6	3
93	Structural Insight into the Self-Assembly of a Pharmaceutically Optimized Insulin Analogue Obtained by Small-Angle X-ray Scattering. Molecular Pharmaceutics, 2020, 17, 2809-2820.	2.3	3
94	Efficient refolding and reconstitution of tissue factor into nanodiscs facilitates structural investigation of a multicomponent system on a lipid bilayer. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183214.	1.4	3
95	Lipid-bound ApoE3 self-assemble into elliptical disc-shaped particles. Biochimica Et Biophysica Acta - Biomembranes, 2021, 1863, 183495.	1.4	3
96	Controlling the fractal dimension in self-assembly of terpyridine modified insulin by Fe²⁺ and Eu³⁺ to direct in vivo effects. Nanoscale, 2021, 13, 8467-8473.	2.8	3
97	Global fitting of multiple data frames from SECâ€“SAXS to investigate the structure of next-generation nanodiscs. Acta Crystallographica Section D: Structural Biology, 2022, 78, 483-493.	1.1	3
98	A de Novoâ€Designed Monomeric, Compact Threeâ€Helixâ€Bundle Protein on a Carbohydrate Template. ChemBioChem, 2015, 16, 1905-1918.	1.3	2
99	Protocol for Investigating the Interactions Between Intrinsically Disordered Proteins and Membranes by Neutron Reflectometry. Methods in Molecular Biology, 2020, 2141, 569-584.	0.4	2
100	Non-ionic detergent assists formation of supercharged nanodiscs and insertion of membrane proteins. Biochimica Et Biophysica Acta - Biomembranes, 2022, 1864, 183884.	1.4	2
101	Structural model of tissue factor (TF) and TF-factor VIIa complex in a lipid membrane: A combined experimental and computational study. Journal of Colloid and Interface Science, 2022, 623, 294-305.	5.0	1
102	Structure Analysis of Synaptic Vesicles by Solution Small-Angle Scattering of X-Rays. Biophysical Journal, 2010, 98, 284a.	0.2	0
103	Small-angle Neutron Scattering Shows that the Solution Structures of the Bacterial Mg2+-Channel CorA are Overall Similar with and without Mg2+Bound. Biophysical Journal, 2020, 118, 12a.	0.2	0
104	Oligomerization of Pharmaceutically Relevant Insulin Analogues for Varying Concentration and Salinity Revealed by Small-Angle X-ray Scattering. Molecular Pharmaceutics, 2021, 18, 3272-3280.	2.3	0
105	Title is missing!. , 2020, 16, e1007870.		0
106	Title is missing!. , 2020, 16, e1007870.		0
107	Title is missing!. , 2020, 16, e1007870.		0
108	Title is missing!. , 2020, 16, e1007870.		0