

Martin A Schroer

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.

64
papers

1,223
citations

21
h-index

32
g-index

75
ext. papers

1,491
ext. citations

4.7
avg, IF

4.39
L-index

#	Paper	IF	Citations
64	Intercalation in layered metal-organic frameworks: reversible inclusion of an extended π -system. <i>Journal of the American Chemical Society</i> , 2011 , 133, 8158-61	16.4	102
63	Selection, biophysical and structural analysis of synthetic nanobodies that effectively neutralize SARS-CoV-2. <i>Nature Communications</i> , 2020 , 11, 5588	17.4	73
62	Exploring the piezophilic behavior of natural cosolvent mixtures. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 11413-6	16.4	71
61	Single shot coherence properties of the free-electron laser SACLA in the hard X-ray regime. <i>Scientific Reports</i> , 2014 , 4, 5234	4.9	64
60	Concentration dependent effects of urea binding to poly(N-isopropylacrylamide) brushes: a combined experimental and numerical study. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 5324-35	3.6	54
59	Stabilizing effect of TMAO on globular PNIPAM states: preferential attraction induces preferential hydration. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 31459-31470	3.6	51
58	Nonlinear pressure dependence of the interaction potential of dense protein solutions. <i>Physical Review Letters</i> , 2011 , 106, 178102	7.4	50
57	The effect of ionic strength, temperature, and pressure on the interaction potential of dense protein solutions: from nonlinear pressure response to protein crystallization. <i>Biophysical Journal</i> , 2012 , 102, 2641-8	2.9	45
56	High-pressure SAXS study of folded and unfolded ensembles of proteins. <i>Biophysical Journal</i> , 2010 , 99, 3430-7	2.9	40
55	Influence of TMAO and urea on the structure of water studied by inelastic X-ray scattering. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 16518-26	3.6	40
54	Unique features of the folding landscape of a repeat protein revealed by pressure perturbation. <i>Biophysical Journal</i> , 2010 , 98, 2712-21	2.9	36
53	Correlated heterogeneous dynamics in glass-forming polymers. <i>Physical Review E</i> , 2015 , 91, 042309	2.4	30
52	Phase separation and Si nanocrystal formation in bulk SiO ₂ studied by x-ray scattering. <i>Applied Physics Letters</i> , 2010 , 96, 081912	3.4	30
51	Investigation of charge ratio variation in mRNA - DEAE-dextran polyplex delivery systems. <i>Biomaterials</i> , 2019 , 192, 612-620	15.6	29
50	Sequential Single Shot X-ray Photon Correlation Spectroscopy at the SACLA Free Electron Laser. <i>Scientific Reports</i> , 2015 , 5, 17193	4.9	28
49	Structural plasticity of staphylococcal nuclease probed by perturbation with pressure and pH. <i>Proteins: Structure, Function and Bioinformatics</i> , 2011 , 79, 1293-305	4.2	26
48	Polysarcosine-Functionalized Lipid Nanoparticles for Therapeutic mRNA Delivery. <i>ACS Applied Nano Materials</i> , 2020 , 3, 10634-10645	5.6	26

47	Ligand Layer Engineering To Control Stability and Interfacial Properties of Nanoparticles. <i>Langmuir</i> , 2016 , 32, 7897-907	4	23
46	Water-Mediated Protein-Protein Interactions at High Pressures are Controlled by a Deep-Sea Osmolyte. <i>Physical Review Letters</i> , 2018 , 121, 038101	7.4	23
45	Exploring the Piezophilic Behavior of Natural Cosolvent Mixtures. <i>Angewandte Chemie</i> , 2011 , 123, 11615-11618	3.1	23
44	Hybrid Biopolymer and Lipid Nanoparticles with Improved Transfection Efficacy for mRNA. <i>Cells</i> , 2020 , 9,	7.9	23
43	Recent developments in small-angle X-ray scattering and hybrid method approaches for biomacromolecular solutions. <i>Emerging Topics in Life Sciences</i> , 2018 , 2, 69-79	3.5	20
42	Smaller capillaries improve the small-angle X-ray scattering signal and sample consumption for biomacromolecular solutions. <i>Journal of Synchrotron Radiation</i> , 2018 , 25, 1113-1122	2.4	19
41	Tuning the Interaction of Nanoparticles from Repulsive to Attractive by Pressure. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 19856-19861	3.8	18
40	Nano-beam X-ray microscopy of dried colloidal films. <i>Soft Matter</i> , 2015 , 11, 5465-72	3.6	16
39	Structural Kinetics of MsbA Investigated by Stopped-Flow Time-Resolved Small-Angle X-Ray Scattering. <i>Structure</i> , 2020 , 28, 348-354.e3	5.2	15
38	Tuning the Size of Thermoresponsive Poly(N-Isopropyl Acrylamide) Grafted Silica Microgels. <i>Gels</i> , 2017 , 3,	4.2	14
37	Dynamics of soft nanoparticle suspensions at hard X-ray FEL sources below the radiation-damage threshold. <i>IUCrJ</i> , 2018 , 5, 801-807	4.7	14
36	Heterogeneous local order in self-assembled nanoparticle films revealed by X-ray cross-correlations. <i>IUCrJ</i> , 2018 , 5, 354-360	4.7	13
35	Structure and Stability of PEG- and Mixed PEG-Layer-Coated Nanoparticles at High Particle Concentrations Studied In Situ by Small-Angle X-Ray Scattering. <i>Particle and Particle Systems Characterization</i> , 2018 , 35, 1700319	3.1	12
34	Pressure-Stimulated Supercrystal Formation in Nanoparticle Suspensions. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 4720-4724	6.4	12
33	Characteristics of angular cross correlations studied by light scattering from two-dimensional microsphere films. <i>Physical Review E</i> , 2014 , 90, 012309	2.4	12
32	Exploring the thermodynamic derivatives of the structure factor of dense protein solutions. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 9486-91	3.6	12
31	Structuralization of magnetic nanoparticles in 5CB liquid crystals. <i>Soft Matter</i> , 2017 , 13, 7890-7896	3.6	11
30	Colloidal crystallite suspensions studied by high pressure small angle x-ray scattering. <i>Journal of Chemical Physics</i> , 2016 , 144, 084903	3.9	11

29	A miniature closed-circle flow cell for high photon flux X-ray scattering experiments. <i>Journal of Synchrotron Radiation</i> , 2015 , 22, 1555-8	2.4	10
28	Cotton Textile/Iron Oxide Nanozyme Composites with Peroxidase-like Activity: Preparation, Characterization, and Application. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 23627-23637	9.5	10
27	A liquid jet setup for x-ray scattering experiments on complex liquids at free-electron laser sources. <i>Review of Scientific Instruments</i> , 2016 , 87, 063905	1.7	9
26	Hydration in aqueous solutions of ectoine and hydroxyectoine. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 27917-27923	3.6	9
25	Adsorption of nanoparticles at the solid-liquid interface. <i>Journal of Colloid and Interface Science</i> , 2012 , 374, 287-90	9.3	8
24	Microsecond Structural Rheology. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3581-3585	6.4	8
23	Dissolution of iron oxide nanoparticles inside polymer nanocapsules. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 20354-60	3.6	8
22	Self-Assembled Micelles from Thermoresponsive Poly(methyl methacrylate)-b-poly(N-isopropylacrylamide) Diblock Copolymers in Aqueous Solution. <i>Macromolecules</i> , 2021 , 54, 384-397	5.5	8
21	Investigation of pH-Responsiveness inside Lipid Nanoparticles for Parenteral mRNA Application Using Small-Angle X-ray Scattering. <i>Langmuir</i> , 2020 , 36, 13331-13341	4	6
20	Kinetics of pressure-induced nanocrystal superlattice formation. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 21349-21354	3.6	5
19	Hydration in aqueous osmolyte solutions: the case of TMAO and urea. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 11614-11624	3.6	5
18	Anomalous SAXS at P12 beamline EMBL Hamburg: instrumentation and applications. <i>Journal of Synchrotron Radiation</i> , 2021 , 28, 812-823	2.4	5
17	Structure of the endocytic adaptor complex reveals the basis for efficient membrane anchoring during clathrin-mediated endocytosis. <i>Nature Communications</i> , 2021 , 12, 2889	17.4	5
16	Manipulating thin polymer films by changing the pH value. <i>Journal of Applied Physics</i> , 2011 , 110, 102221	2.5	4
15	Local orientational order in self-assembled nanoparticle films: the role of ligand composition and salt. <i>Journal of Applied Crystallography</i> , 2019 , 52, 777-782	3.8	4
14	Slowing down of dynamics and orientational order preceding crystallization in hard-sphere systems. <i>Science Advances</i> , 2020 , 6,	14.3	4
13	ASAXS measurements on ferritin and apoferritin at the bioSAXS beamline P12 (PETRA III, DESY). <i>Journal of Applied Crystallography</i> , 2021 , 54, 830-838	3.8	4
12	Formation of iron containing aggregates at the liquid-air interface. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 109, 74-81	6	3

11	Effect of the concentration of protein and nanoparticles on the structure of biohybrid nanocomposites. <i>Biopolymers</i> , 2020 , 111, e23342	2.2	3
10	Co-Nonsolvency Effect in Solutions of Poly(methyl methacrylate)-b-poly(N-isopropylacrylamide) Diblock Copolymers in Water/Methanol Mixtures. <i>Macromolecules</i> , 2021 , 54, 5825-5837	5.5	3
9	Supercrystal Formation of Gold Nanorods by High Pressure Stimulation. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 29994-30000	3.8	2
8	pH controlled condensation of polysiloxane networks at the water-air interface. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 455, 44-48	5.1	2
7	Iron oxide film growth under ultrathin polysiloxane networks. <i>Colloid and Polymer Science</i> , 2013 , 291, 653-659	2.4	2
6	Study of time and pressure dependent phenomena at the hard x-ray beamline BL9 of DELTA. <i>Journal of Physics: Conference Series</i> , 2013 , 425, 202006	0.3	2
5	Probing the existence of non-thermal Terahertz radiation induced changes of the protein solution structure. <i>Scientific Reports</i> , 2021 , 11, 22311	4.9	2
4	Unraveling agglomeration and deagglomeration in aqueous colloidal dispersions of very small tin dioxide nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2021 ,	9.3	2
3	A THz transparent 3D printed microfluidic cell for small angle x-ray scattering. <i>Review of Scientific Instruments</i> , 2020 , 91, 084101	1.7	2
2	A Multiperspective Approach to Solvent Regulation of Enzymatic Activity: HMG-CoA Reductase. <i>ChemBioChem</i> , 2018 , 19, 153-158	3.8	1
1	Clustering in ferronematics-The effect of magnetic collective ordering.. <i>IScience</i> , 2021 , 24, 103493	6.1	