Saskia Bucciarelli
Postdoc
Biostructural Research
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Qualifications

Physical Chemistry, PhD, Lund University

Physics, MSc, University of Fribourg

Physics/Mathematics, BSc, University of Fribourg

Employment

Postdoc

Biostructural Research

København Ø, Denmark
15 May 2016 → 14 May 2019

Postdoc

Biostructural Research

København Ø, Denmark
15 May 2016 → 14 May 2019

PhD student

Lund University, Department of Chemistry, Division of Physical Chemistry

Lund, Sweden
1 Jul 2011 → 13 Dec 2015

Publications

Dramatic influence of patchy attractions on short-time protein diffusion under crowded conditions
Bucciarelli, S., Myung, J. S., Farago, B., Das, S., Vliegenthart, G. A., Holderer, O., Winkler, R. G., Schurtenberger, P., Gompper, G. & Stradner, A. 7 Dec 2016 In : Science advances. 2, 8 p., e1601432

High-mobility group protein B1 (HMGB1) binds to the rs7903146 locus in the T-cell factor 7-like 2 (TCF7L2) gene in human pancreatic islets
Zhou, Y., Oskolkov, N., Shcherbina, L., Ratti, J., Kock, K-H., Su, J., Martin, B., Zackrisson Oskolkova, M., Göransson, O., Bacon, J., Li, W., Bucciarelli, S., Cilio, C., Brazma, A., Thatcher, B., Rung, J., Wierup, N., Renström, E., Groop, L. & Hansson, O. 15 Jul 2016 In : Molecular and Cellular Endocrinology. 430, p. 138-145

Extended law of corresponding states applied to buffer isotope effect on a globular protein
Bucciarelli, S., Mahmoudi, N., Casal-Dujat, L., Jéhannin, M., Jud, C. & Stradner, A. 14 Apr 2016 In : Journal of Physical Chemistry Letters. 7, p. 1610-1615

How scattering helps to gain a better understanding of presbyopia
Bucciarelli, S., Casal-Dujat, L., Farago, B., Schurtenberger, P. & Stradner, A. 2016

Unusual Dynamics of Concentration Fluctuations in Solutions of Weakly Attractive Globular Proteins
Bucciarelli, S., Casal-Dujat, L., De Michele, C., Sciortino, F., Dhont, J., Bergenholtz, J., Farago, B., Schurtenberger, P. & Stradner, A. 27 Oct 2015 In : Journal of Physical Chemistry Letters. 6, p. 4470-4474

Dynamical arrest in concentrated eye lens protein solutions and its effect on vision
Bucciarelli, S., Casal-Dujat, L., Farago, B., Schurtenberger, P. & Stradner, A. 2015

Hard sphere-like glass transition in eye lens α-crystallin solutions
Foffi, G., Savin, G., Bucciarelli, S., Dorsaz, N., Thurston, G. M., Stradner, A. & Schurtenberger, P. 25 Nov 2014 In : Proceedings of the National Academy of Sciences USA (PNAS). p. 16748–16753

Cluster-Driven Dynamical Arrest in Concentrated Lysozyme Solutions
Cardinaux, F., Zaccarelli, E., Stradner, A., Bucciarelli, S., Farago, B., Egelhaaf, S. U., Sciortino, F. & Schurtenberger, P. 29 Apr 2011 In : The Journal of Physical Chemistry Part B. 115, p. 7227–7237

Activities

How do attractions and crowding affect protein solution dynamics?
Bucciarelli, S. (Speaker)
26 May 2016

How X-rays, light and neutrons help to understand presbyopia
Bucciarelli, S. (Speaker)
8 Sep 2015

Presbyopia - caused by dynamical arrest of the concentrated protein mixture in the eye lens cells?
Bucciarelli, S. (Speaker)
15 May 2014

Neutron spin echo experiments reveal different arrest scenarios in concentrated eye lens protein solutions
Bucciarelli, S. (Speaker)
23 Apr 2014

2nd Research on Vertebrate Vision in Lund
Bucciarelli, S. (Organizer)
2014 → …

Disentangling critical slowing down and dynamical arrest in lens protein solutions
Bucciarelli, S. (Speaker)
8 Sep 2012

Competition between critical phenomena and dynamical arrest in concentrated eye lens protein solutions
Bucciarelli, S. (Speaker)
29 May 2012