

Stanford



Martin Voegele

Postdoctoral Research Fellow, Computer Science

Bio

HONORS AND AWARDS

- EMBO Long-Term Fellowship, European Molecular Biology Organization (2019)
- Participation in the Lindau Nobel Laureates Meeting, Council for the Lindau Nobel Laureate Meetings (2019)

PROFESSIONAL EDUCATION

- Doctor of Philosophy, Max Planck Institute of Biophysics and Goethe University Frankfurt , Physics (2019)
- Master of Science, University of Stuttgart , Physics (2014)
- Bachelor of Science, University of Konstanz , Physics (2011)

Publications

PUBLICATIONS

- **Membrane perforation by the pore-forming toxin pneumolysin** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Voegele, M., Bhaskara, R. M., Mulvihill, E., van Pee, K., Yildiz, O., Kuehlbrandt, W., Mueller, D. J., Hummer, G.
2019; 116 (27): 13352–57
- **Hydrodynamics of Diffusion in Lipid Membrane Simulations** *PHYSICAL REVIEW LETTERS*
Voegele, M., Koefinger, J., Hummer, G.
2018; 120 (26): 268104
- **Coarse-grained simulations of polyelectrolyte complexes: MARTINI models for poly(styrene sulfonate) and poly(diallyldimethylammonium)** *JOURNAL OF CHEMICAL PHYSICS*
Voegele, M., Holm, C., Smiatek, J.
2015; 143 (24): 243151
- **PDADMAC/PSS Oligoelectrolyte Multilayers: Internal Structure and Hydration Properties at Early Growth Stages from Atomistic Simulations.** *Molecules (Basel, Switzerland)*
Sanchez, P. A., Voegele, M., Smiatek, J., Qiao, B., Sega, M., Holm, C.
2020; 25 (8)
- **REPLY TO DESIKAN ET AL.: Micelle formation among various mechanisms of toxin pore formation** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Voegele, M., Bhaskara, R. M., Mulvihill, E., van Pee, K., Yildiz, O., Kuehlbrandt, W., Mueller, D. J., Hummer, G.
2020; 117 (10): 5109–10
- **Atomistic simulation of PDADMAC/PSS oligoelectrolyte multilayers: overall comparison of tri- and tetra-layer systems.** *Soft matter*
Sanchez, P. A., Voegele, M., Smiatek, J., Qiao, B., Sega, M., Holm, C.
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- **Perceptions of publication pressure in the Max Planck Society.** *Nature human behaviour*
Max Planck PhDnet Survey Group, Wu, C. M., Regler, B., Bauerle, F. K., Voegele, M., Einhorn, L., Elizarova, S., Forste, S., Shenolikar, J., Lasser, J.
2019; 3 (10): 1029–30
- **Finite-Size-Corrected Rotational Diffusion Coefficients of Membrane Proteins and Carbon Nanotubes from Molecular Dynamics Simulations** *JOURNAL OF PHYSICAL CHEMISTRY B*
Voegele, M., Koefinger, J., Hummer, G.
2019; 123 (24): 5099–5106
- **Molecular dynamics simulations of carbon nanotube porins in lipid bilayers** *FARADAY DISCUSSIONS*
Voegele, M., Koefinger, J., Hummer, G.
2018; 209: 341–58
- **Biomimetic water channels: general discussion** *FARADAY DISCUSSIONS*
Baaden, M., Barboiu, M., Bill, R. M., Chen, C., Davis, J., Di Vincenzo, M., Freger, V., Froba, M., Gale, P. A., Gong, B., Helix-Nielsen, C., Hickey, R., Hinds, et al
2018; 209: 205–29
- **The modelling and enhancement of water hydrodynamics: general discussion** *FARADAY DISCUSSIONS*
Baaden, M., Borthakur, M., Casanova, S., Coalson, R., Freger, V., Gonzalez, M., Gora, A., Hinds, B., Hirunpinyopas, W., Hummer, G., Kumar, M., Lynch, C., Murail, et al
2018; 209: 273–85
- **Carbon Nanotubes Mediate Fusion of Lipid Vesicles** *ACS NANO*
Bhaskara, R. M., Linker, S. M., Voegele, M., Koefinger, J., Hummer, G.
2017; 11 (2): 1273–80
- **Divergent Diffusion Coefficients in Simulations of Fluids and Lipid Membranes** *JOURNAL OF PHYSICAL CHEMISTRY B*
Voegele, M., Hummer, G.
2016; 120 (33): 8722–32
- **Properties of the polarizable MARTINI water model: A comparative study for aqueous electrolyte solutions** *JOURNAL OF MOLECULAR LIQUIDS*
Voegele, M., Holm, C., Smiatek, J.
2015; 212: 103–10