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Current position

Group Leader

University training and degree

1992 – 1998 Physics studies, University of Bayreuth, Germany

1995 – 1996 Université Denis Diderot (Paris VII), France

Advanced academic qualifications

2004 Doctorate in Theoretical Physics  
“Instabilities in layered liquids induced by external fields”  
Prof. Helmut Brand, University of Bayreuth

Postgraduate professional career

2017 – current Group Leader at Leibniz-Institut for Polymer Research Dresden

2007 – 2017 Group Leader, Max-Planck-Institute for Polymer Research, Mainz

2006 - 2007 Post-doctoral researcher, Max-Planck-Institute for Polymer Research, Mainz,  
Prof. Hans-Jürgen Butt

2004 - 2006 Post-doctoral researcher (individual Marie Curie Fellow), Institut de Mécanique  
des Fluides et des Solides de Strasbourg, France, Dr. Philippe Martinoty

2003 - 2004 Post-doctoral researcher, Max-Planck-Institute for Polymer Research, Mainz,  
Prof. Hans-Jürgen Butt

Other

2018 Regional Editor “Colloid and Polymer Science”

2018 Zsigmondy Colloquium 2018, Member of the organizing committee

2018 Associate Editor “Polymer Bulletin”

2015 IACIS 2015, Member of the organizing committee

2004 Individual Marie Curie Fellowship

10 selected publications of all research areas

1. Auernhammer, G. K., H. R. Brand and H. Pleiner (2002). "Shear-induced instabilities in layered liquids." Phys. Rev. E **66**: 061707-061701 – 061714.
2. Zhang, L., M. D'Acunzi, M. Kappl, G. K. Auernhammer, D. Vollmer, C. M. van Kats and A. van Blaaderen (2009). "Hollow Silica Spheres: Synthesis and Mechanical Properties." Langmuir **25**: 2711 -- 2717.
3. Roth, M., M. D'Acunzi, D. Vollmer and G. K. Auernhammer (2010). "Viscoelastic rheology of colloid-liquid crystal composites." J. Chem. Phys. **132**: 124702.
4. Sokuler, M., G. K. Auernhammer, M. Roth, C. Liu, E. Bonaccorso and H.-J. Butt (2009). "The Softer the Better: Fast Condensation on Soft Surfaces." Langmuir **26**(3): 1544-1547.
5. Roth, M., C. Schilde, P. Lellig, A. Kwade and G. K. Auernhammer (2012). "Colloidal aggregates tested via nanoindentation and simultaneous 3D imaging." Eur. Phys. J. E **35**: 124.
6. Chen, L., C. Li, N. F. A. van der Vegt, G. n. K. Auernhammer and E. Bonaccorso (2013). "Initial Electrospreading of Aqueous Electrolyte Drops." Phys. Rev. Lett. **110**(2): 026103.
7. Liaqat, F., M. N. Tahir, H. Huesmann, P. Daniel, M. Kappl, G. K. Auernhammer, D. Schneider, I. Lieberwirth, K. Char, G. Fytas, H. J. Butt and W. Tremel (2015). "Ultrastrong composites from dopamine modified-polymer-infiltrated colloidal crystals." Materials Horizons **2**(4): 434-441.
8. Henrich, F., D. Fell, D. Truszkowska, M. Weirich, M. Anyfantakis, T.-H. Nguyen, M. Wagner, G. K. Auernhammer and H.-J. Butt (2016). "Influence of surfactants in forced dynamic dewetting." Soft Matter **12**: 7782 - 7791.
9. Zhou, H., C. Xue, P. Weis, Y. Suzuki, S. Huang, K. Koyanov, G. K. Auernhammer, R. Berger, H. J. Butt and S. Wu (2017). "Photoswitching of glass transition temperatures of azobenzene-containing polymers induces reversible solid-to-liquid transitions." Nat Chem **9**(2): 145-151.
10. Puljiz, M., S. Huang, G. K. Auernhammer and A. M. Menzel (2016). "Forces on Rigid Inclusions in Elastic Media and Resulting Matrix-Mediated Interactions." Physical Review Letters **117**(23): 238003.