

Qian Huang

Researcher - Rheology, Polymer Physics, Fluid Dynamics

Born: Jan. 1982

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Education

Feb. 2010 – Jan. 2013	Ph. D in Molecular Rheology of Complex Fluids, Technical University of Denmark (DTU). - Main supervisor: Prof. Ole Hassager
Sep. 2004 – Aug. 2006	M. Sc in Polymer Engineering, DTU
Sep. 2000 – Jun. 2004	Bachelor of Engineering in Polymer Materials and Engineering, Zhejiang University (ZJU), China
Sep. 2001 – Jun. 2004	Double Bachelor of Management in E-Commerce, ZJU, China

Positions

Nov. 2015 – Present	Researcher at the Danish Polymer Centre, DTU Chemical Engineering - Co-PI of the Dodynet project under the EU H2020 - Marie Curie Innovative Training Networks
Apr. 2013 – Oct. 2015	Postdoc at the Danish Polymer Centre, DTU Chemical Engineering
Feb. 2010 – Jan. 2013	Early Stage Researcher at DTU Chemical Engineering - In the Dynacop project under the EU 7th Framework - Marie Curie Initial Training Networks
Jun. 2007 – Dec. 2009	Chemical Process Engineer at MAA Engineering Consultants (Shanghai) Co., Ltd., China

Conferences and Lectures

Dec. 2017 – Apr. 2018	Co-Chair of the session ‘Experimental Methods & Progress in Rheometry’ of the 12th AERC in Sorrento, Italy
Sep. 2016 – Apr. 2017	Organizing Committee Member and Co-Chair of the session ‘Polymer Solutions and Melts’ of the 11th AERC in Copenhagen, Denmark
Aug. 2016	Invited Keynote Speaker for the session ‘Homogeneous Polymeric Systems’ at the 17th International Congress on Rheology in Kyoto, Japan
2013 – 2018	More than 10 oral presentations in international conferences (ICR, AERC, and SoR meetings)
2013 – 2017	Participated in teaching the master course ‘Transport Processes’ at the University of Chinese Academy of Science in Beijing, China - Sino-Danish Network; stay in China 2-4 weeks every year

Selected Publications

- [1] Manfred H. Wagner, Esmaeil Narimissa, and **Qian Huang**, “On the Origin of Brittle Fracture of Entangled Polymer Solutions and Melts”, *Journal of Rheology* 62, 221–233 (2018)
- [2] Kell Mortensen, Anine L. Borger, Jacob J.K. Kirkensgaard, Christopher J. Garvey, Kristoffer Almdal, Andriy Dorokhin, **Qian Huang**, and Ole Hassager, “Structural Studies of Three-Arm Star Block Copolymers Exposed to Extreme Stretch Suggest a Persistent Polymer Tube”, *Physical Review Letters* 120, 207801 (2018)
- [3] **Qian Huang** and Ole Hassager, “Polymer liquids fracture like solids”, *Soft Matter* 13, 3470–3474 (2017) ([on front cover](#))
- [4] **Qian Huang**, Salvatore Costanzo, Chinmay Das and Dimitris Vlassopoulos “Stress growth and relaxation of dendritically branched macromolecules in shear and uniaxial extension”, *Journal of Rheology* 61, 35–47 (2017)
- [5] **Qian Huang**, Nicolas J. Alvarez, Aamir Shabbir, and Ole Hassager, “Multiple cracks propagate simultaneously in polymer liquids in tension”, *Physical Review Letters* 117, 087801 (2016) ([Editors recommendation; Highlighted in a viewpoint on physics.aps.org](#))
- [6] **Qian Huang**, Serena Agostini, Ludovica Hengeller, Maksim Shivokhin, Nicolas J. Alvarez, Lian R. Hutchings, and Ole Hassager, “Dynamics of star polymers in fast extensional flow and stress relaxation”, *Macromolecules* 49, 6694–6699 (2016)
- [7] **Qian Huang**, Ludovica Hengeller, Nicolas J. Alvarez, and Ole Hassager, “Bridging the gap between polymer melts and solutions in extensional rheology”, *Macromolecules* 48, 4158–4163 (2015)
- [8] Sara L. Wingstrand, Nicolas J. Alvarez, **Qian Huang**, and Ole Hassager, “Linear and nonlinear universality in the rheology of polymer melts and solutions”, *Physical Review Letters* 115, 078302 (2015)
- [9] **Qian Huang**, Olga Mednova, Henrik K. Rasmussen, Nicolas J. Alvarez, Anne L. Skov, Kristoffer Almdal, and Ole Hassager, “Concentrated polymer solutions are different from melts: Role of entanglement molecular weight”, *Macromolecules* 46, 5026–5035 (2013)
- [10] **Qian Huang**, Nicolas J. Alvarez, Yumi Matsumiya, Henrik K. Rasmussen, Hiroshi Watanabe, and Ole Hassager, “Extensional rheology of entangled polystyrene solutions suggests importance of nematic interactions”, *ACS Macro Letters* 2, 741–744 (2013)