

University of Groningen

Design of sustainable polymer networks for advanced applications based on dynamic covalent bonds

Ye, Chongnan

DOI:
[10.33612/diss.215510652](https://doi.org/10.33612/diss.215510652)

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Document Version
Publisher's PDF, also known as Version of record

Publication date:
2022

[Link to publication in University of Groningen/UMCG research database](#)

Citation for published version (APA):
Ye, C. (2022). *Design of sustainable polymer networks for advanced applications based on dynamic covalent bonds*. University of Groningen. <https://doi.org/10.33612/diss.215510652>

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Acknowledgements

There is a famous Chinese proverb from Guanzi that says: If you want one year of prosperity, then grow grain. If you want ten years of prosperity, then grow trees. But if you want one hundred years of prosperity, then grow people. I believe the University of Groningen knows it well and has been contributing to it over four hundred years.

The research group Macromolecular Chemistry & New Polymeric Materials, part of the Zernike Institute for Advanced Materials at the University of Groningen, and the research group Sustainable Plastics & Circular Plastics at NHL Stenden University of Applied Sciences are currently writing history by joining forces and forming the Netherlands' first hybrid research group. Unique in its kind, the Hybrid research group Biopolymer and Recycling Innovations, shortly "HyBRIt", shares staff and facilities from both knowledge institutions. HyBRIt is the catalyst of knowledge in the field of green chemistry and bioplastics in Drenthe, Groningen and Friesland. I'm so lucky to be the first PhD candidate getting involved in this program. At the end of this thesis, I do want to thank all the distinguished individuals help me over the years.

First of all, I would like to thank my promoter Prof. Katja Loos for offering me this great opportunity to pursue my PhD study in our Macromolecular Chemistry and New Polymeric Materials group. Many thanks for your guidance, patience and immense knowledge in my research and this thesis writing. You gave me the freedom to come up with new ideas and offered any support you can to help me realize them. Additionally, you encouraged me to go out presenting myself, which is important for a researcher development but is lacking in most Chinese students. To be honest, there is still a lot of room for me to improve in the future. Your passion and hardworking set up a good example for me to follow. Meanwhile, you are so kind, and chatting with you is very interesting. Aside from the "meaningful" academic discussion, you always told me some interesting stories, like how the name of my living block, Paddepoel, literally means "ugly frog pool". I enjoyed working in our group!

My sincere thanks also go to my co-promotor, Prof. Rudy Folkersma. Thanks for you running this PhD program that supports my research, even if the original goal has been met in my first year! I am grateful for your appreciated efforts and time in reading and correcting my manuscripts and giving me constructive feedback. Owing to the bridge

you and Katja built between University of Groningen and NHL Stenden University of Applied Sciences, I can be the first PhD of our great HyBRIt program. I have learnt a lot and had an excellent support team to carry my idea out, which is a fantastic experience. I really think working with you and the team from NHL Stenden is “gezellig”, looking forward to our future collaboration.

I do want to acknowledge my co-promotor as well as my daily supervisor, Dr. Vincent S. D. Voet. Vincent, you are an excellent mentor from both academic and daily life. I learnt a lot from you, your solid background and skill in the chemical synthesis, your enthusiasm with teaching, your efficient time management and your broad eyesight. In the beginning, you helped me realize that a PhD candidate is not only a researcher but also a project manager for your own four-year project, which benefits me a lot during the past four years. You encourage me to carry my own idea. However, whenever I ran into an issue, you were always there to provide me with significant advice. Besides work, chat must play an important role in our Friday afternoon before the pandemic. At this part, I am certain that I can provide something interesting for you, especially the story about China. As the fishing man story you told me, I would say that you are one of the largest “fish” I have ever met. Looking forward to our future exciting work!

I would also like to acknowledge the rest of my graduation committee members, Prof. Marleen Kamperman, Prof. Alexander Böker, and Prof. George Palasantzas and for taking the time to read my thesis. Marleen, it is very nice to talk with you. I learnt a lot from you and many thanks for your advice!

It is impossible to finish this thesis without my collaborators' contribution, I would express my sincere gratitude to you: Prof. Petra Rudolf, Prof. Giuseppe Portale, Dr. Feng Yan, Dr. Jingjin Dong, Dr. Xiaotian Zhu, Dr. Xiaobo Tian, Dr. Weiteng Guo, Dr. Xiaohong Lan, Wenjian Li, Kush Gahlot, Jur van Dijken, Geraldine (Dinja) Schnelting, Albert Woortman and Léon Rohrbach.

Petra, thanks a lot for supporting my closed collaboration with Feng. We tried a lot interesting project and obtain fruitful results. Meanwhile, I have the chance to make friends in such an interesting group!!! Feng, we spent an impressive time together on project design, experiments processing and problem solving. I am so amazed about your passion, smartness and efficiency. Except for before 11:00 a.m. on weekdays, you are always available and supportive whenever I need you, whether for work or personal reasons. I learnt a lot 2D materials' knowledge from you and really enjoyed the time we spent together. I believe that you will get a wonderful journey in Manchester!!! Giuseppe and Jingjin, thank you for your assistance with WAXS measurements on my horrible graphene samples! I'm hoping that my sample behaves properly for the next measurement.

Xiaotian and Xiaobo, you are so kind to provide me with the SEM, TEM and Mass Spectroscopy support during my PhD. Thanks a lot for your contribution, which play a crucial role in my thesis! I wish you all the best in Shenzhen and Geneva respectively. Weiteng, thanks for guiding me into the study of wetting. You give me lots of suggestion on my first paper. You promised that you would pay for my talk show. I'm looking for meeting you at Shenzhen as I can charge for my "performance"!!! Xiaohong, we have had a good collaboration since you came to our group three years ago. We have very nice discussion for the starch based vitrimer development. I believed the wonderful outputs will come out soon and you will get a good position for your next step! Wenjian, thanks for your help in the TENG and sensor project, I learnt a lot from your interesting background. Wish you best in your following PhD life! Dear Kush, thanks for your perovskite nanocrystal. Although our project didn't go well, I learned a lot during this process! I must admit that the fluorescence of PNC is too charming for me to give up! I'm hoping we'll be able to make it in the future! Dinja, thank for your experience in 3D printing! I cannot imagine finishing the last chapter within one month before the Christmas without your help! Looking forward to our future printing project!

Our super technical support team, Albert and Jur, you know almost everything in our lab and helped me a lot with the experiment. Albert, thanks for helping me with GPC and finding HPLC test, which really help me a lot! Jur, besides DSC, TGA and tensile test, I should say I'm sorry for the annoying mold! You always helped me to open it when I prepared the "dogbone" samples, which almost waste 30 min for each time. I really appreciated to that! Léon, I think you are one of my most familiar people outside our group. You helped me with the column machine, contact angle measurement, titration and TOC analysis. I can't imagine the situation without you!

I was lucky to be the daily supervisor of several great (under)graduate students. Marjory, Jarno, Macro and Clara, thanks for your contribution and trust! I learnt a lot during our working period.

I would also like to express my special gratitude to my paranymphs, Dr. Théophile Peltras and Qi Chen. Théo, you always bring surprise to our group and everyone enjoy working with you. Particularly, I am extremely thankful and beholden to your manuscript checking for me! Merci beaucoup! Qi, you are very busy with your graduation as well but you insisted to help me with my graduation. I am very grateful to you, my best friend in the group! In our group, we've shared more than four years of memories, which I cherish! You are a funny girl and food seeker. Owing to your efforts, I could have chance to try the delicious original 擀面皮儿. That's really nice! I wish you well in the search and wait for your graduation!

Acknowledgements

Karin, thanks for your kind work assisting us with faculty work, including purchasing, maintaining reporting, and reimbursement. I wish your company goes well! Jin, thank for introducing the group when I started my work. Peter, you are actually my first daily supervisor at my starting phase. Thanks for your guide at my first year and help in 3D printing! Dina, thanks for taking responsibility of figure design in our group! Almost everyone gets your help to make their papers more beautiful. What's more, you arranged the activities to build a nice working atmosphere within the group! Now, you are an assistant professor. Wish you all the best in your future professor career! Renato, we are the first two PhD candidates of the HyBRIt group. We shared a very nice memory both in Emmen and Groningen. Now, it is your last year of your PhD life so I wish you all the best in this challenging year! Aldo, my fume hood neighbor, it very nice to work with you in the lab. What more, our common interest, basketball, brought interesting talk about NBA between us. I wish you all the best in the graduation and hope Kyrie Irving wins the NBA championship since my Lakers has been out this year :). Lena, you just joint in our group but we have known each other almost three years ago because to our common friends, Feng. Besides the funny time within Petra's group period, you also gave me lots of help in my thesis preparation. I hope you will have a glory memory in our group as well.

It would be impossible to mention all the name of people that have helped me in one way or another. I would like to thank the current and former members of our group as well as the whole polymer department. Thanks for all the working hours together and forgettable time I shared with you. Masyitha, Laura, Martin, Maryam, Luan, Mokun, Kai, Xia, Corniek, Filtrilia, Antonios, Jingjin, Marco, Gianni, Yassaroh, Judith, Milad, Azis, Ivan, Niels, Julien, Guillermo, Annemarie, Larissa, Jianwu, Mohammad, Xixi, Rui, Federico, Gabor, Gianni, Eleonora, thanks for being great colleagues! Wish you good luck with your project and enjoy your following colorful life in the future!

Additionally, I would like thank my all-time friends here from different departments. First, I would like to thank Zhi and Luo from organic chemistry! Your strong organic synthesis knowledge has been a huge help to me during my PhD. Zhiwen from chemical engineering, you are an incredible man! You helped me a lot with not only the column machine but my hair. You are so kind that you always give your hands when someone is in need. I believe that a wonderful position is waiting for you in the near future! I'd also want to thank Heng, Minpeng, Qikai, Huatang, Liqiang, and Xukai for allowing me to extend my horizon and make the project more exciting! Especially, Heng, thank for your invitation of the crab meal and the enjoyable chat during the hot summer evening!

My wonderful life in the Netherlands started at Enschede, a small town in the east of this beautiful country. At this special time, I have to thank friends from there who help me

get used to my incredible journey.

Here, I would express my extreme appreciation to Prof. G. Julius. Vancso, the promotor of my master program. You are the one who enlightens me the first glance of polymer study! I learnt a lot from you. Additionally, without your recommendation, I have no chance to start such a fantastic life within Groningen. I really enjoyed the time within your MTP group!

I would also like to thank Dr. Mark Hempenius for your patience and supervision! I still remember you helped me prepare my master thesis presentation step by step before my defense and your coffee invitation whenever we met again in Enschede :) !

Furthermore, I am very fortunate to have had Dr. Kaihuan Zhang and Dr. Shanqiu Liu as my best friends during Enschede time. Shanqiu, we met at the ACASA office. I've made a wonderful friend since then! You shared a wealth of your experience, not only academically but also in everyday life, which was extremely beneficial to me! During my difficult first year, I will never forget how you cooked for me, encouraged me, took me sightseeing, and assisted me in finding solutions! I met Kaihuan, another friend and significant person, thanks to your introduction!

Kaihuan, I am extremely grateful to you being my master thesis supervisor! You are an outstanding supervisor because you not only share your expertise and knowledge with the students, but you also encourage their creativity. Your passion on research and endless smart idea make research interesting and attractive for me! Without the experience working with you, I would be definitely hesitant to become a PhD candidate. Besides the academic life, we had a crazy time on Pokemon GO, writing codes to catch the rare Pokemons, resulting in a permanent ban of my account from Nintendo :).

Life is not limited to research! My dear neighbors, Yi, Yafeng, Fan Liu, Zhenlei, Jie, Shun, Fangyuan, Guancai, Jian, Rongjing, Beibei, Yanfang, Yanyan, Chunli, Xiu, Qian (富贵), Shaoyu, and Fan Yang. Thanks a lot for the nice memory we shared together! Particularly, Shun and Fangyuan we played 王者荣耀 together almost every evening at my first year! Qian and Shaoyu, we have celebrated three Chinese New Year together! Qian, as an artist and cook, you provide a lot of surprises for me to test, which is amazing! Zhenlei and Jie, I will never forget our nice spa journey. I wish you all the best in the future life! Wei, it is incredible that meet a friend from my own hometown in such a faraway place! We didn't usually meet each other because of our different working hours and place, but we always had a good time when we did. I wish you the best in your career and look forward to the nice hometown food you made! Many worlds of thanks go to the friends I met in Groningen and Emmen: Yuru, Yanfei, Huaizhou, Fan, Yuanxin, Qi, Jiaxin, Jinyu, Xianyuan, Ali, Xiaocui, Yapei, Qihong, Si, Yinyu, Gert, Jan, Rik, Wen,

Acknowledgements

Xingyu and Jing... Excuse me that there are so many people that I cannot name them one by one. I am so happy to with you together! I would also like to acknowledge the friends during my Enschede time. I was truly enjoying the time with Yulai, Sijia, Minimin, Hongling, Zhiliang, Guanjiao, Ling, Yin, Min, Yaxing, Han, Luyao, Peihua, Lan, Yao, Jingya, Fanyuan, Rik, Gertjan, and Chuan. Thanks for the joyful time we spent together!

Finally, and most importantly, I would like to dedicate this thesis to my family members supporting me along the way. I am grateful to my father and mother, thanks for all the love you gave to me and encourage me to pursue my dream. Wish you all safe healthy and happy! Yuhan, you are the most important person I met during my fantastic life in the Netherlands. It is the seventh year since we have been together. We started our fabulous life in Enschede and continued in Groningen! Life with you is always full of fun! Thanks for your understanding and support during my PhD. I am looking forward to our wonderful journey ahead. In the end, the most grateful thanks to you!

Chongnan Ye

Groningen, the Netherlands

2022