

List of Publications (up to date publications are provided via [ORCID](https://orcid.org/0000-0003-4910-601X)):

1. **Loc Tan Nguyen**, Stephan Maes, and Filip E. Du Prez. "Enabling the Reprocessability and Debonding of Epoxy Thermosets Using Dynamic Poly (β -Amino Amide) Curing Agents." *Advanced Functional Materials* **2025**, 35, 19, 2419240.
2. **Loc Tan Nguyen**, Adithya Tharayil, Nezha Badi, Johan M. Winne, and Filip E. Du Prez. "Exploring transamidation and chemical recycling of β -amino amide-derived covalent adaptable networks." *Polymer Chemistry* **2025**, 16, 5009-5018.
3. **Loc Tan Nguyen** and Filip E. Du Prez. Direct Restoration of Photocurable Cross-linkers for Repeated Light-based 3D Printing of Covalent Adaptable Networks. *Materials Horizons* **2024**, 11, 24, 6408-6415.
4. **Loc Tan Nguyen**, Chiel Mertens, Filip E. Du Prez. Aza-Michael Chemistry for PDMS-Based Covalent Adaptable Elastomers: Design and Dual Role of the Silica Filler. *Macromolecules* **2024**, 57, 10, 4817-4825.
5. **Loc Tan Nguyen**, Francesca Portone, Filip E Du Prez. β -Amino amide based covalent adaptable networks with high dimensional stability. *Polymer Chemistry* **2024**, 15, 11-16.
6. **Loc Tan Nguyen**, Pham, H. Q., Phung, D. T. T., Truong, T. T., Nguyen, H. T., Doan, T. C. D., & Nguyen, L. T. T. Macromolecular design of a reversibly crosslinked shape-memory material with thermo-healability. *Polymer* **2020**, 188, 122144.
7. Debsharma, Tapas, **Loc Tan Nguyen**, Benon P. Maliszewski, Susanne M. Fischer, Vincent Scholiers, Johan M. Winne, Steven P. Nolan, and Filip E. Du Prez. "Eliminating creep in vitrimers using temperature-resilient siloxane exchange chemistry and N-heterocyclic carbenes." *Chemical Science* **2025**, 16, 21, 9337-9347.
8. Portone, Francesca, **Loc Tan Nguyen**, Roberta Pinalli, Alessandro Pedrini, Filip E. Du Prez, and Enrico Dalcanale. "Debondable phenoxy-based structural adhesives with β -amino amide containing reversible crosslinkers." *RSC Applied Polymers* **2025**, 3, 3, 637-642.
9. Fischer, Susanne M., Ives De Baere, **Loc Tan Nguyen**, Harald Stecher, Wim Van Paepegem, and Filip E. Du Prez. "Scalable β -Aminoester-Based Covalent Adaptable Networks for Wind Turbine Blade Composites." *Macromolecules* **2025**, 58, 15, 7948-7956.

10. Maes, Stephan, **Loc Tan Nguyen**, Johan M. Winne, and Filip E. Du Prez. "Dynamic β -Amino Sulfonamides for the Synthesis of Covalent Adaptable Networks." *ACS Macro Letters* **2025**, 14, 1721-1727.
11. Nguyen, Nguyen Khai Hoang, Huan Hoang Dang, **Loc Tan Nguyen**, Ly Mai Thi Nguyen, Thuy Thu Truong, Ha Tran Nguyen, Thiet Quoc Nguyen, Chau Duc Tran, and Le-Thu T. Nguyen. "Self-healing elastomers from supramolecular random copolymers of 4-vinyl pyridine." *European Polymer Journal* **2023**, 199, 112474.
12. Pham, Hung Quang, Anh Duc Song Nguyen, **Loc Tan Nguyen**, Thuy Thu Truong, Tin Chanh Duc Doan, Ky Phuong Ha Huynh, Ha Tran Nguyen, and Le-Thu T. Nguyen. "A reversible healable epoxy network containing dynamic weak covalent crosslinks." *Polymer Degradation and Stability* **2020**, 182, 109384.
13. Truong, T. T., Thai, S. H., Nguyen, H. T., Phung, D. T. T., **Loc Tan Nguyen**, Pham, H. Q., & Nguyen, L. T. T. *Tailoring the Hard–Soft Interface with Dynamic Diels–Alder Linkages in Polyurethanes: Toward Superior Mechanical Properties and Healability at Mild Temperature.* **Chemistry of Materials** **2019**, 31, 2347-2357.