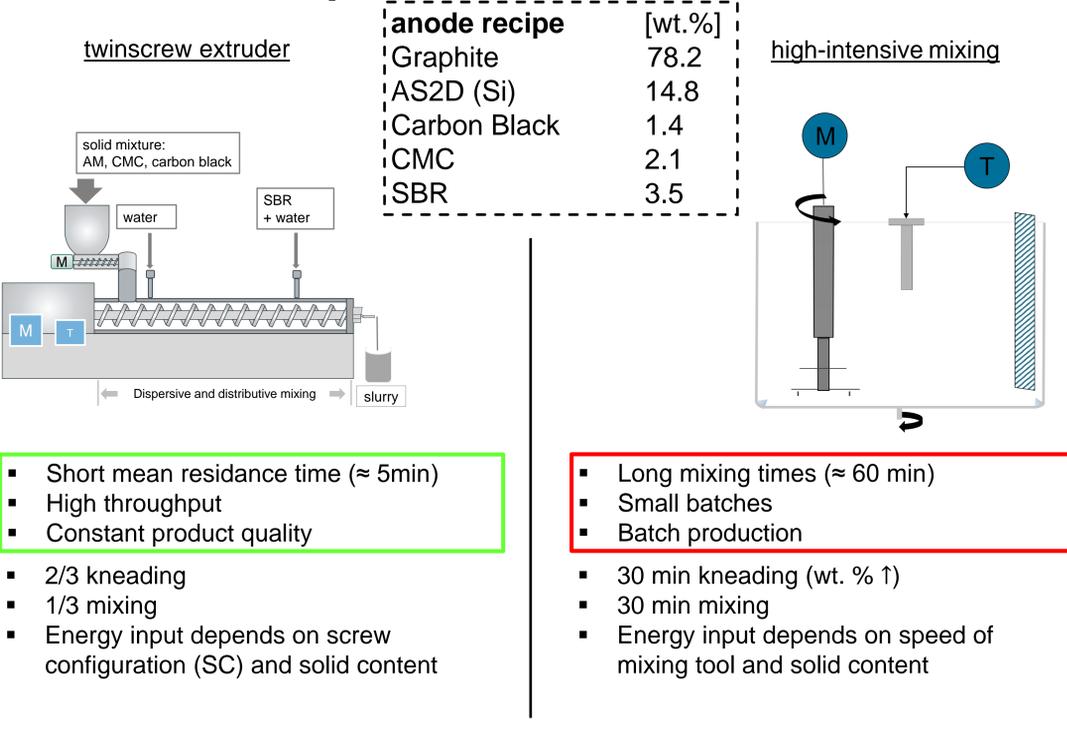


Comparison of a discontinuous and continuous slurry manufacturing process for silicon-containing anodes in lithium-ion batteries pastes

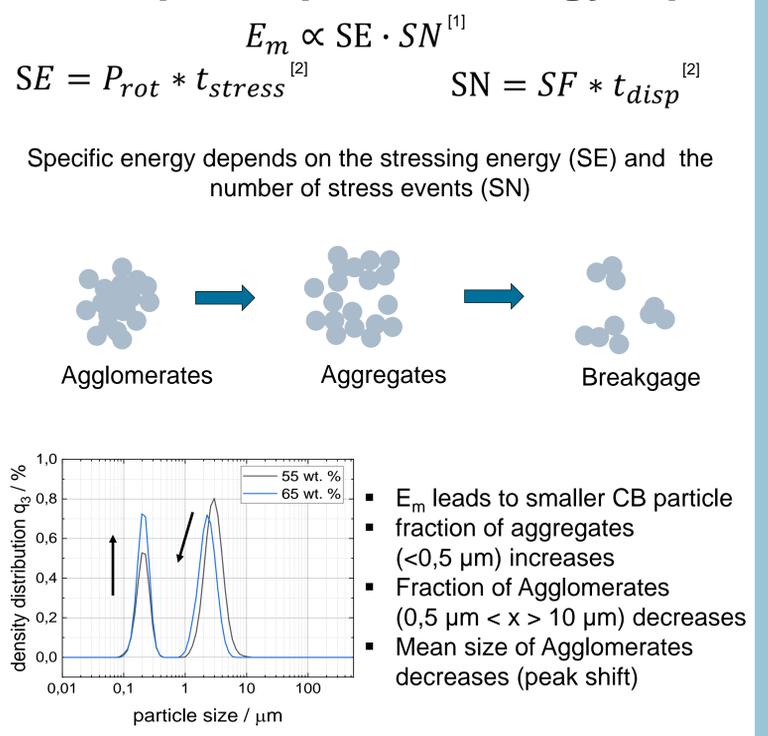
Tim Grenda, Renè Jagau, Prof. Arno Kwade

Institut für Partikeltechnik | Technische Universität Braunschweig | Volkmaroderstr. 5, 38104 Braunschweig | www.ipat.tu-braunschweig.de
t.grenda@tu-braunschweig.de | Telefon +49 (0) 531 391-94658

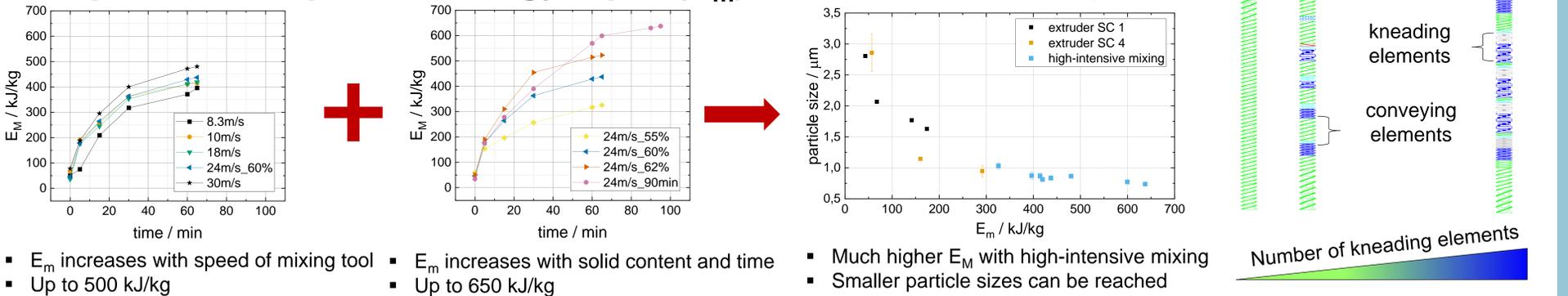
Process Principles



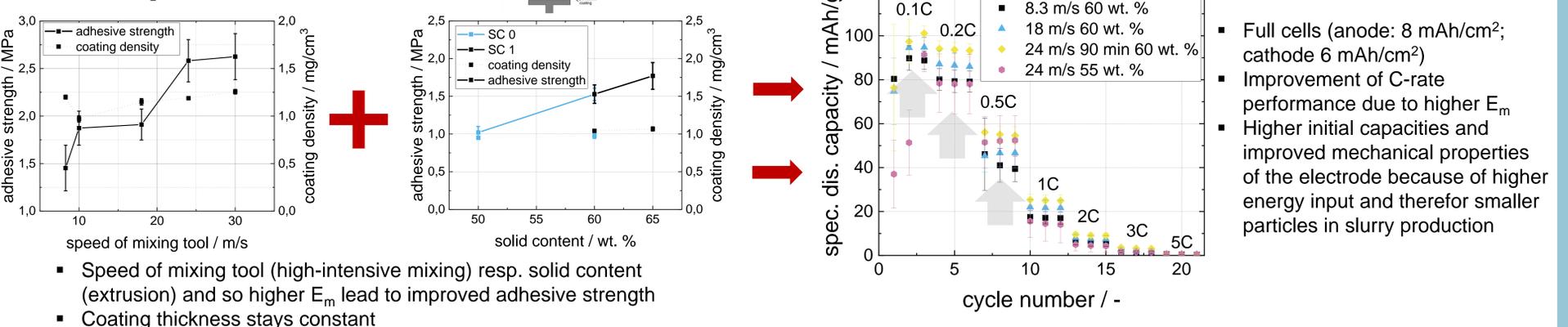
Concept of Specific Energy Input



Comparison of Specific Energy Input (E_m)



Cell Properties



Conclusion

- Higher energy input lead to smaller CB particles and improved cell performances
- Extrusion process is able to reach comparable E_m with significant lower residence times → improved cell capacity

Acknowledgements



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[3] Haselrieder, W et al (2015): Measuring the coating adhesion strength of electrodes for lithium-ion batteries. In: *International Journal of Adhesion and Adhesives* 60, S. 1–8.