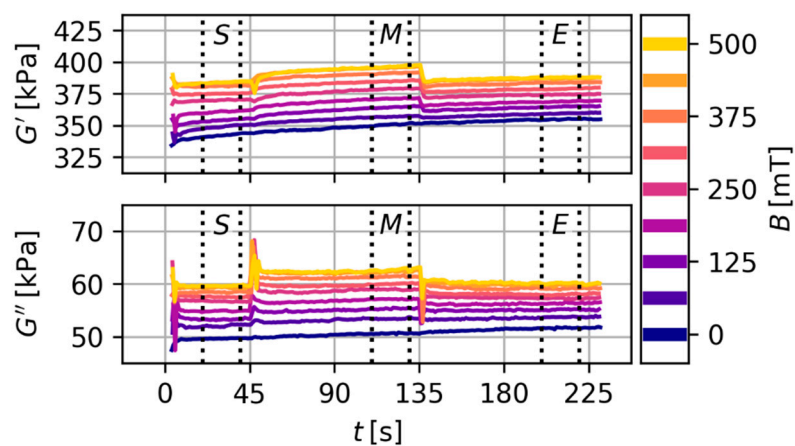
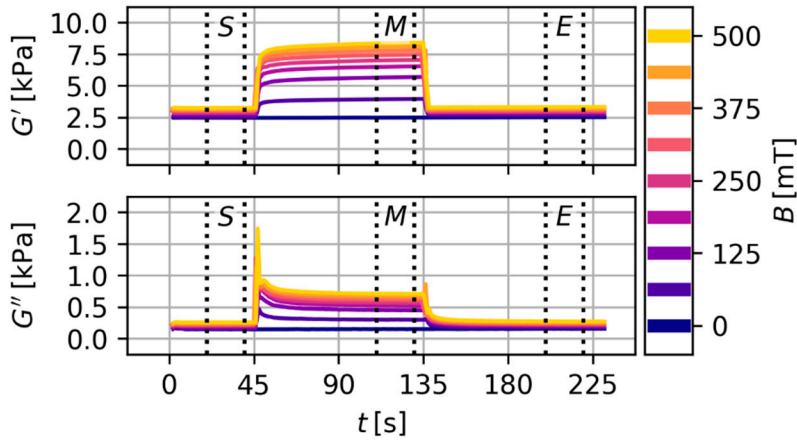


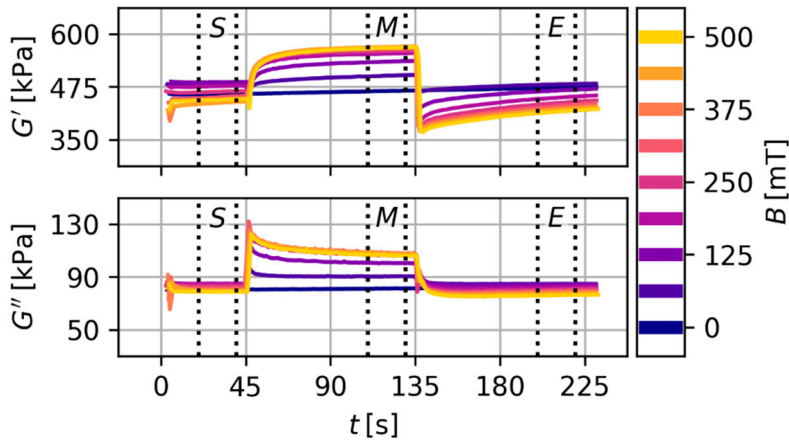
Supplementary Figure S1: Storage and loss modulus over time. The magnetic field is activated at $t = 45$ s and deactivated at $t = 135$ s. Measurements are conducted successively with increasing magnetic flux density for a single sample. $w_s = 10\%$ and $T = 20\text{ °C}$



Supplementary Figure S2: Storage and loss modulus over time. The magnetic field is activated at $t = 45$ s and deactivated at $t = 135$ s. Measurements are conducted successively with increasing magnetic flux density for a single sample. $w_s = 10\%$ and $T = 40\text{ °C}$



Supplementary Figure S3: Storage and loss modulus over time. The magnetic field is activated at $t = 45$ s and deactivated at $t = 135$ s. Measurements are conducted successively with increasing magnetic flux density for a single sample. $w_s = 60\%$ and $T = 20\text{ °C}$



Supplementary Figure S4: Storage and loss modulus over time. The magnetic field is activated at $t = 45$ s and deactivated at $t = 135$ s. Measurements are conducted successively with increasing magnetic flux density for a single sample. $w_s = 60\%$ and $T = 40\text{ °C}$. Only this combination of w_s and T shows a decrease of G' after the deactivation of the magnetic field. The reason for this different behavior is yet unknown.