**Supplementary materials**

**S: Figures**

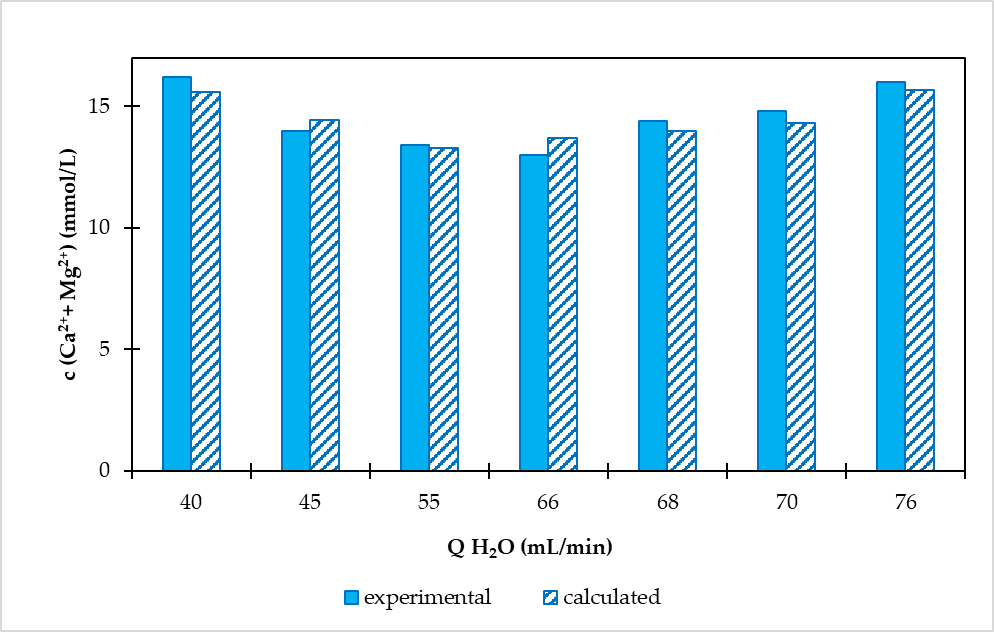


Figure S1. Calculated and measured concentrations of Ca2++Mg2+ at different flows of treated water and CO2 flow at the level of 0.5 L/min during operation of the laboratory FBRR

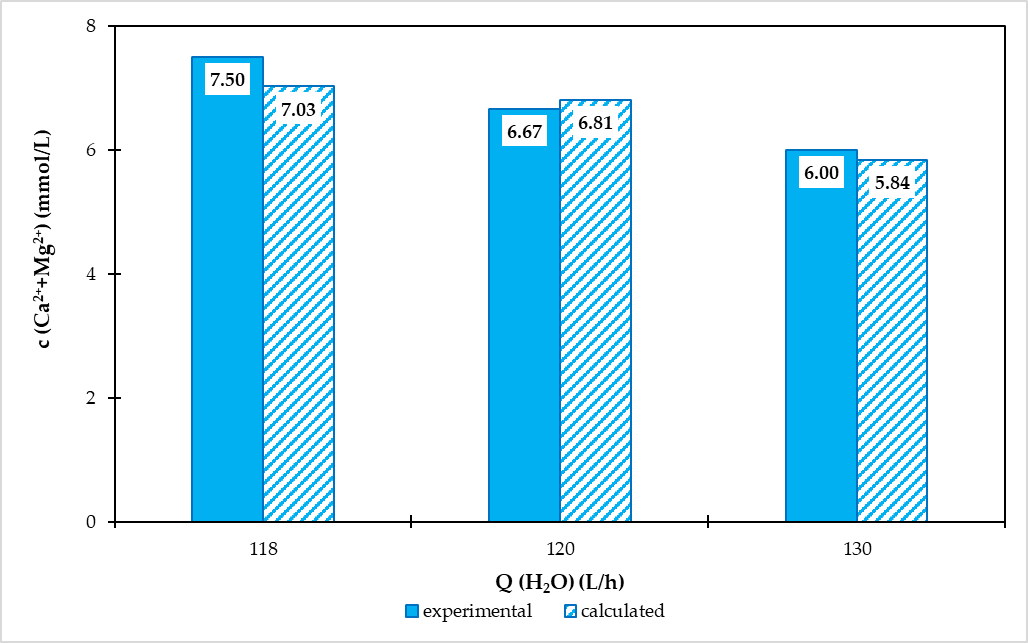


Figure S2 The total concentration of the sum of Ca2+ and Mg2+ ions in drinking water at Q(CO2) = 0.5 L/min

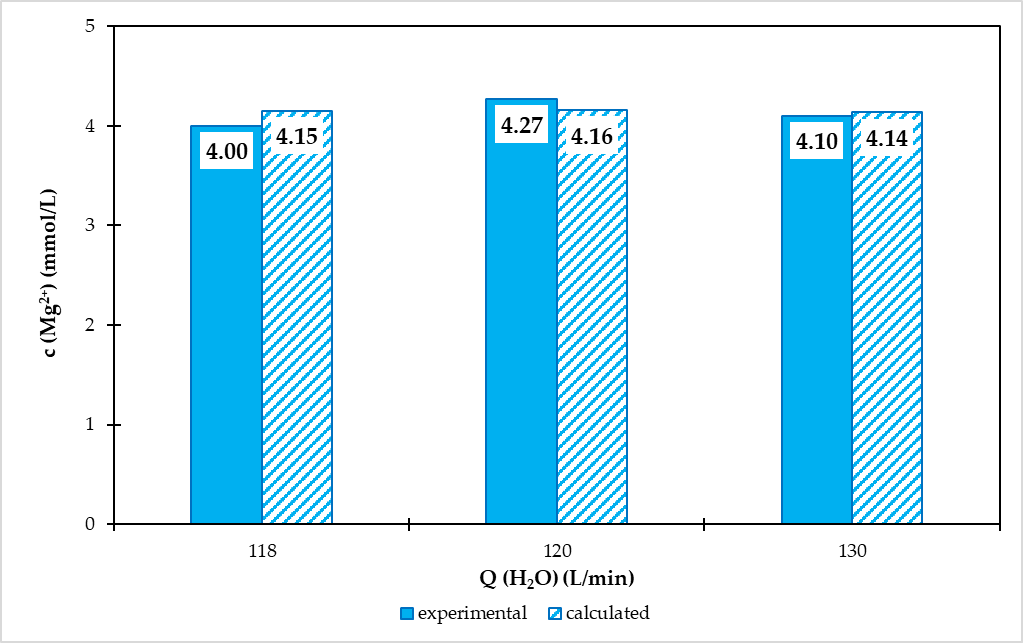


Figure S3. Molar concentration of Mg2+ in drinking water at Q(CO2) = 0.5 L/min

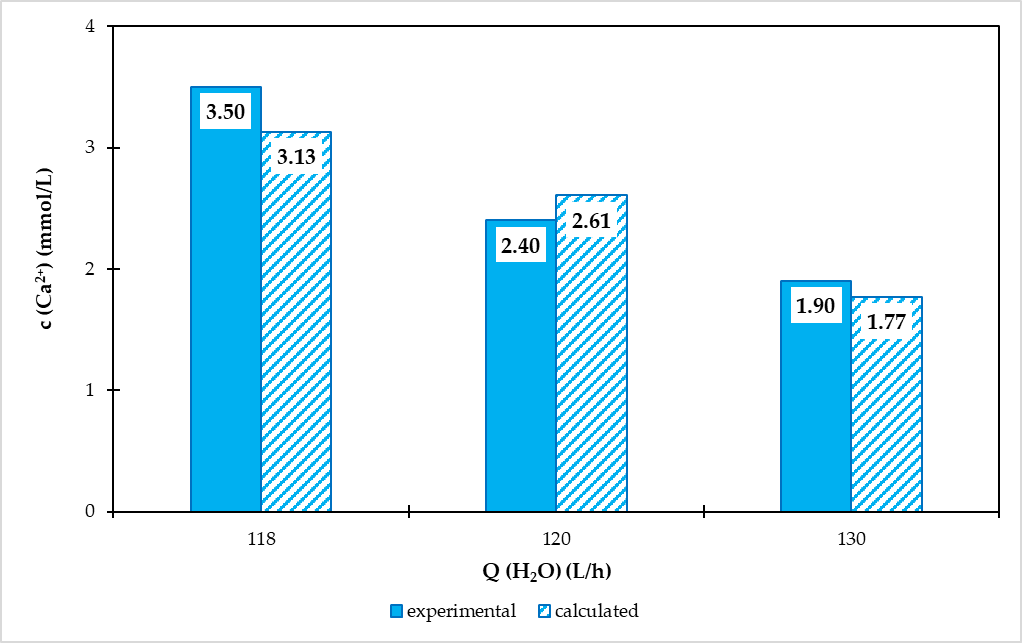


Figure S4. Molar concentration of Ca2+ in drinking water at Q(CO2) = 0.5 L/min

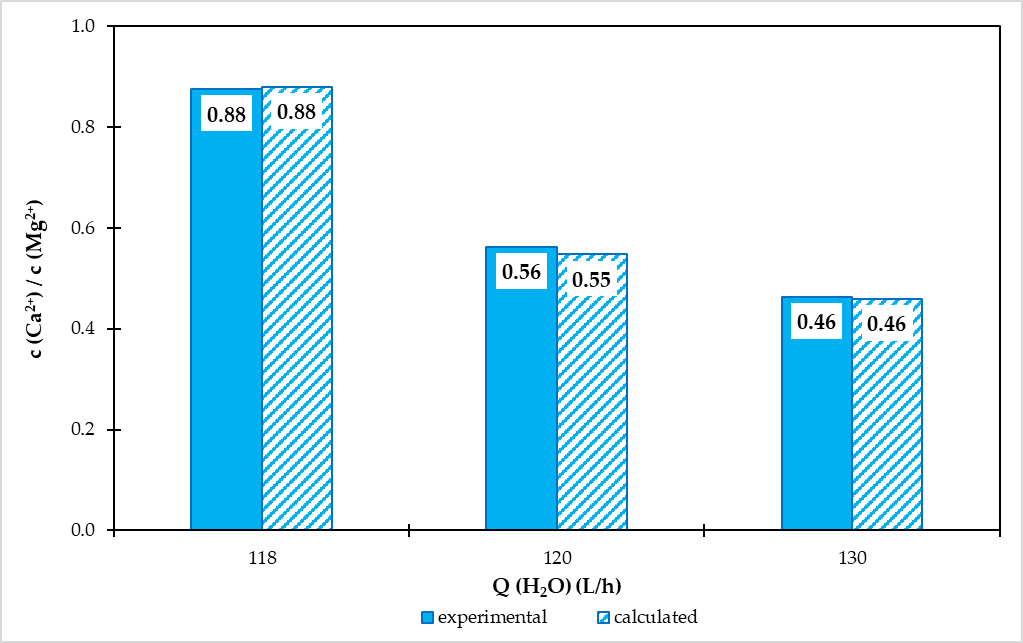


Figure S5. Molar concentration ration of Ca2+ and Mg2+ in drinking water at Q(CO2) = 0.5 L/min

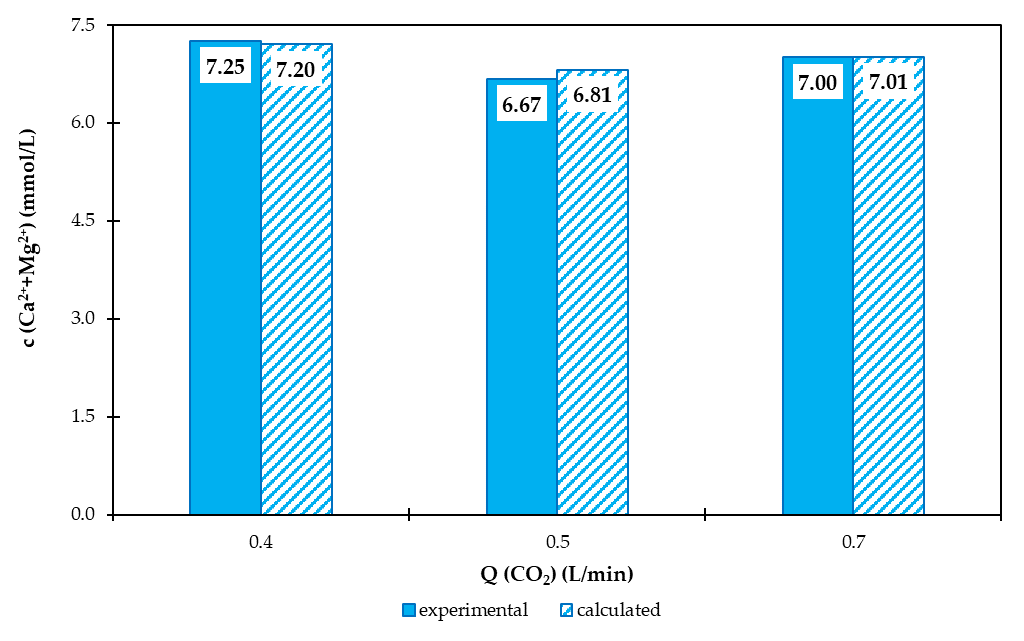


Figure S6. Molar concentration of the sum of Ca2+ and Mg2+ in drinking water at Q(H2O) = 120 L/h

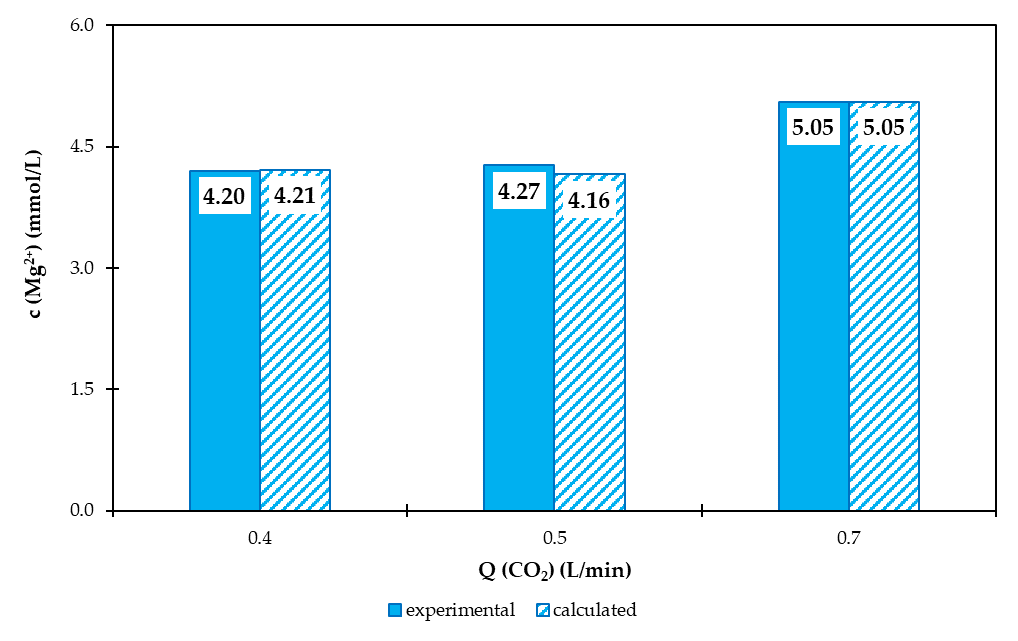


Figure S7. Molar concentration of the sum of Mg2+ in drinking water at Q(H2O) = 120 L/h

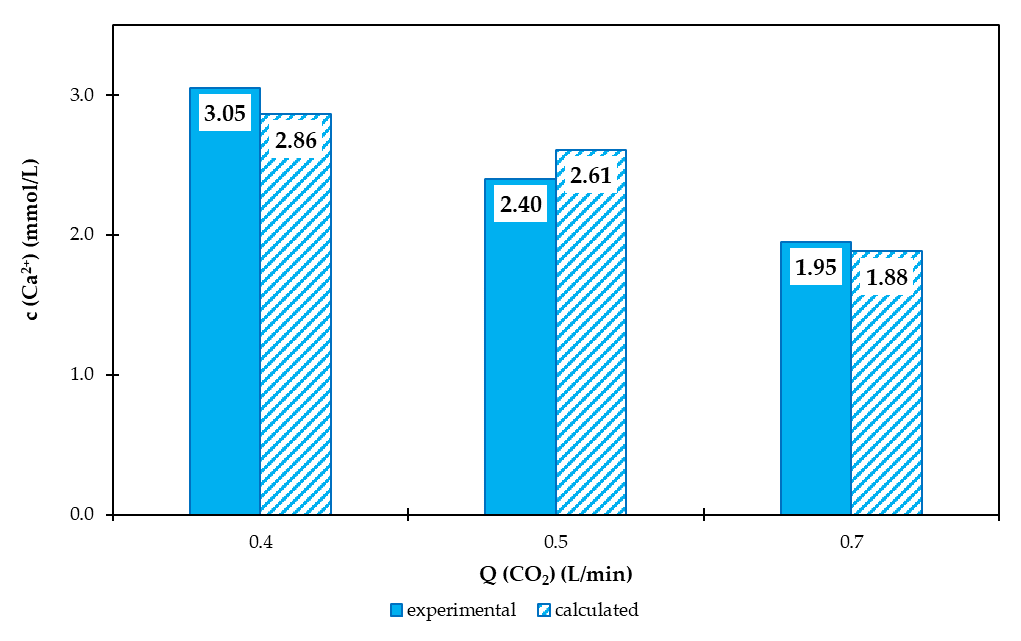


Figure S8. Molar concentration of the sum of Ca2+ in drinking water at Q(H2O) = 120 L/h

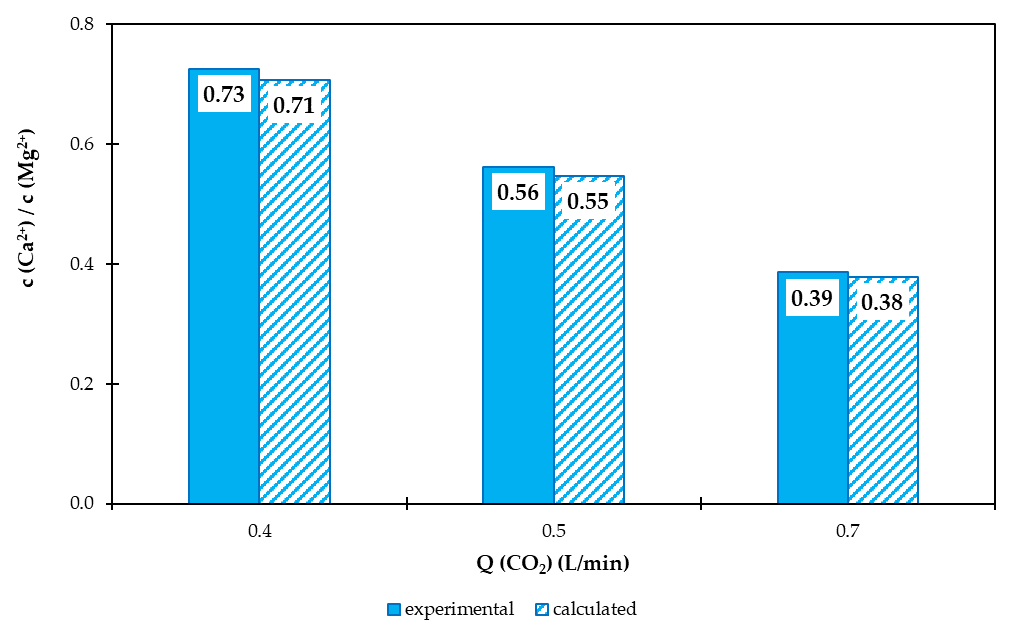


Figure S9. Molar ratio of Ca2+ and Mg2+ concentration in drinking water at Q(H2O) = 120 L/h