Supporting Information File 4

for

Real-time monitoring of calcium carbonate and cationic peptide deposition on carboxylate-SAM using a microfluidic SAW biosensor

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Monitoring cationic peptides ES9 and AS8 on COO-SAM, experimental values, Table S6

Comparative evaluation of the gradient of the phase signal [°] for the two peptides for the time of injections of the peptides ES9 and AS8. The phase signal was continuously recorded for each measurement (3 replicates for each peptide at 3 pH values) and the slope of the linear fit of the phase value at the beginning of the peptide injection. Calculations were performed using the Origin 8.6 software package.

Table S6: Slope of the linear fit of the phase signal in [deg/s] (3 measurements, see e.g. Figure 6).

Measurement	Peptide	pH 7.75	pH 8.2	pH 9.0
1	AS8	0.053	0.106	0.072
2	AS8	0.044	0.074	0.047
3	AS8	0.041	0.075	0.056
Average	AS8	0.046 ± 0.006	0.085 ± 0.018	0.058 ± 0.013
1	ES9	0.01248	0.0723	0.0151
2	ES9	0.01308	0.01552	0.01348
3	ES9	0.01384	0.01439	0.01441
Average	ES9	0.01313 ± 0.00068	0.034 ± 0.033	0.01433 ± 0.00081