

Figure 1S. The change of pH in the solutions with reaction time. The reaction was carried out at 70 °C.

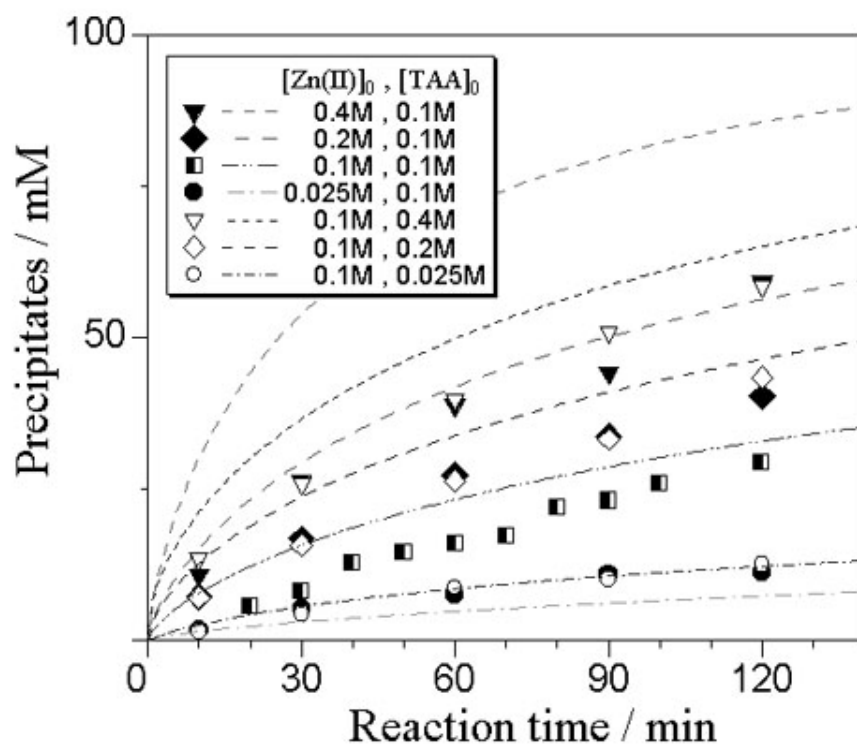


Figure 2S. Comparison of the amounts of ZnS precipitates (P_t) plotted versus reaction time (same as shown in Figure 2) to the theoretically calculated curves obtained by applying eq. A8 (see text in Appendix (ii) for detail).

Table 1S

Table 1S. Rate constants for ZnS precipitation determined for eq. 1, by fitting eq. 2 with the experimental data at various reaction temperatures. (See Appendix for detail)

Temperature / °C	$10^3 \times k / (\text{mol l}^{-1})^{1-2n} \text{ min}^{-1}$
50	2.01
60	3.52
70	5.66
80	10.03
90	18.14