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Autoxidation of S^{IV} inhibited by chlorophenols reacting with sulfate radicals

Józef Ziajka and Krzysztof J. Rudzinski[A]

Department of Catalysis on Metals, Institute of Physical Chemistry of the Polish Academy of Sciences, Kasprzaka 44/52, 01-224 Warsaw, Poland.

[A]Corresponding author: Tel. +48-22-3433402; fax: +48-22-3433448; Email: kjrudz@ichf.edu.pl.

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Section Inhibition of S^{IV} autoxidation

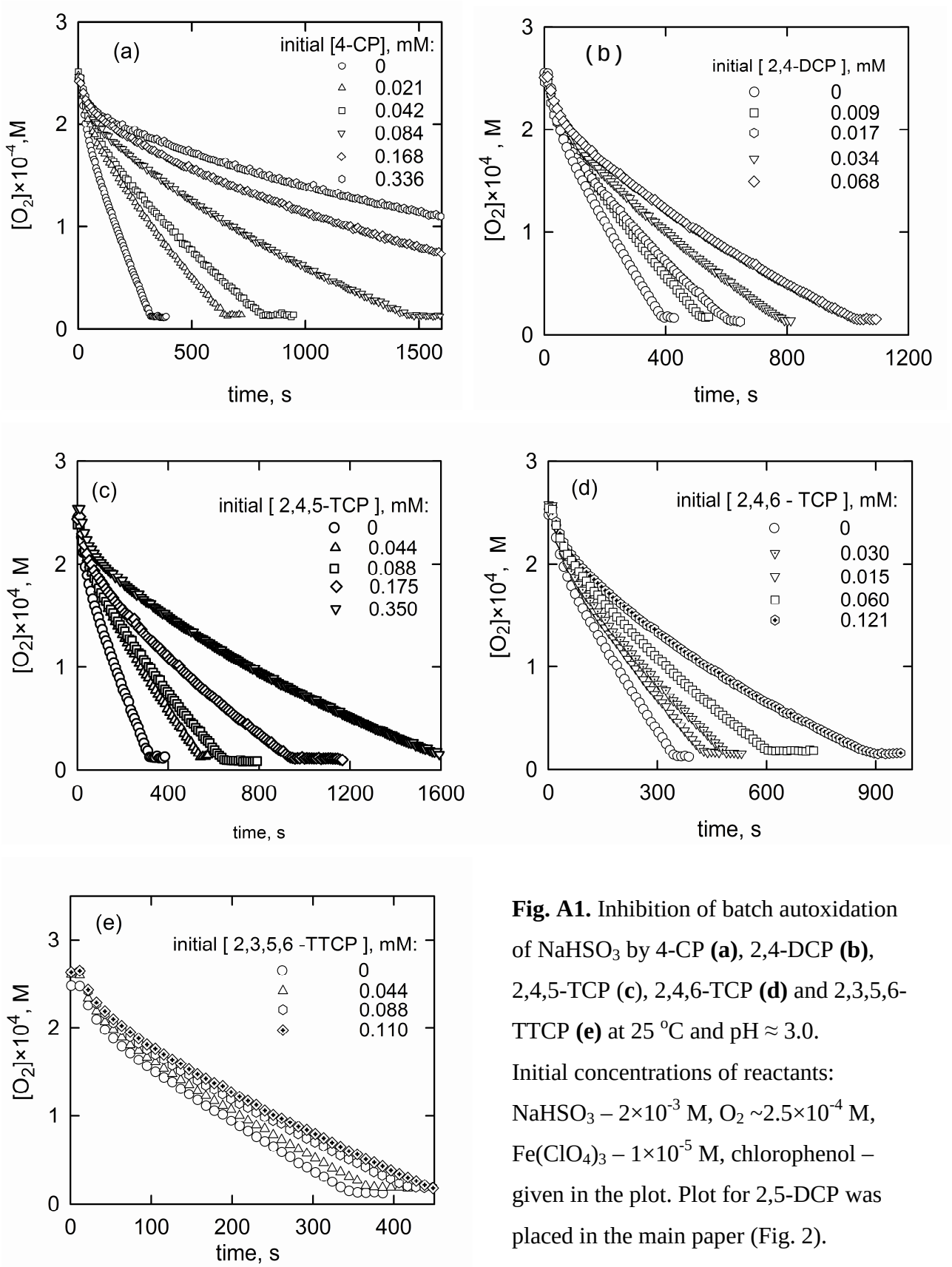

Fig. A1. Inhibition of batch autoxidation of $NaHSO_3$ by 4-CP **(a)**, 2,4-DCP **(b)**, 2,4,5-TCP (**c**), 2,4,6-TCP **(d)** and 2,3,5,6-TTCP **(e)** at 25 ^{o}C and pH ≈ 3.0. Initial concentrations of reactants: $NaHSO_3$ – 2×10^{-3} M, O_2 ~2.5×10^{-4} M, $Fe(ClO_4)_3$ – 1×10^{-5} M, chlorophenol – given in the plot. Plot for 2,5-DCP was placed in the main paper (Fig. 2).

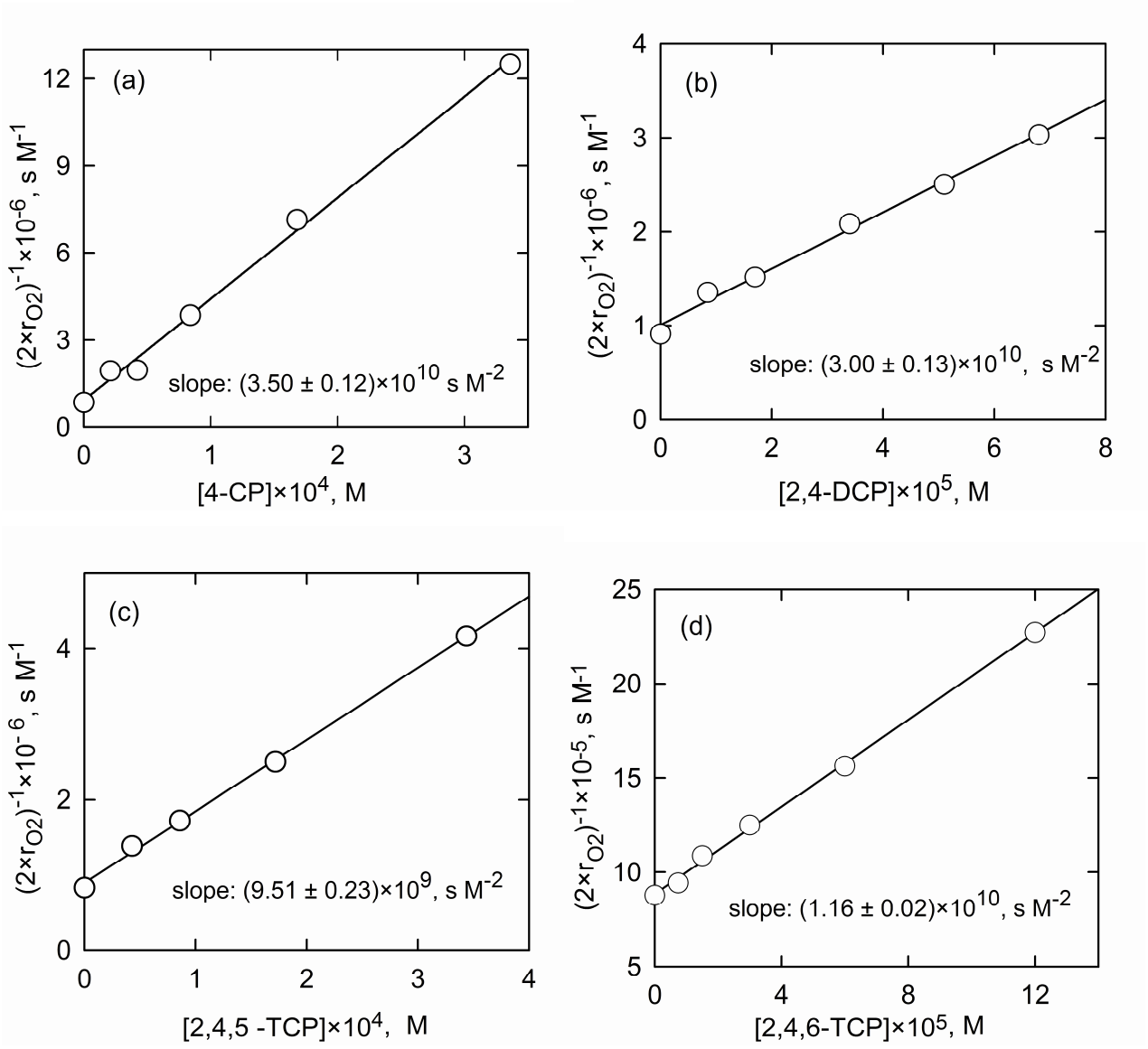

Fig. A2. Reciprocal quasi-stationary rates of $NaHSO_3$ autoxidation catalyzed by $Fe(ClO_4)_3$ and inhibited by 4-CP **(a)**, 2,4-DCP **(b)**, 2,4,5-TCP (**c**), 2,4,6-TCP **(d)** and 2,3,5,6-TTCP **(e),** at 25 ^oC and pH ≈ 3.0. Initial concentrations of reactants: $NaHSO_3$ – 2×10^{-3} M, O_2 ~2.5×10^{-4} M, $Fe(ClO_4)_3$ – 1×10^{-5} M, chlorophenol – given in the plot. Plot for 2,5-DCP was placed in the main paper (Fig. 7).