

Electronic Supplementary Information

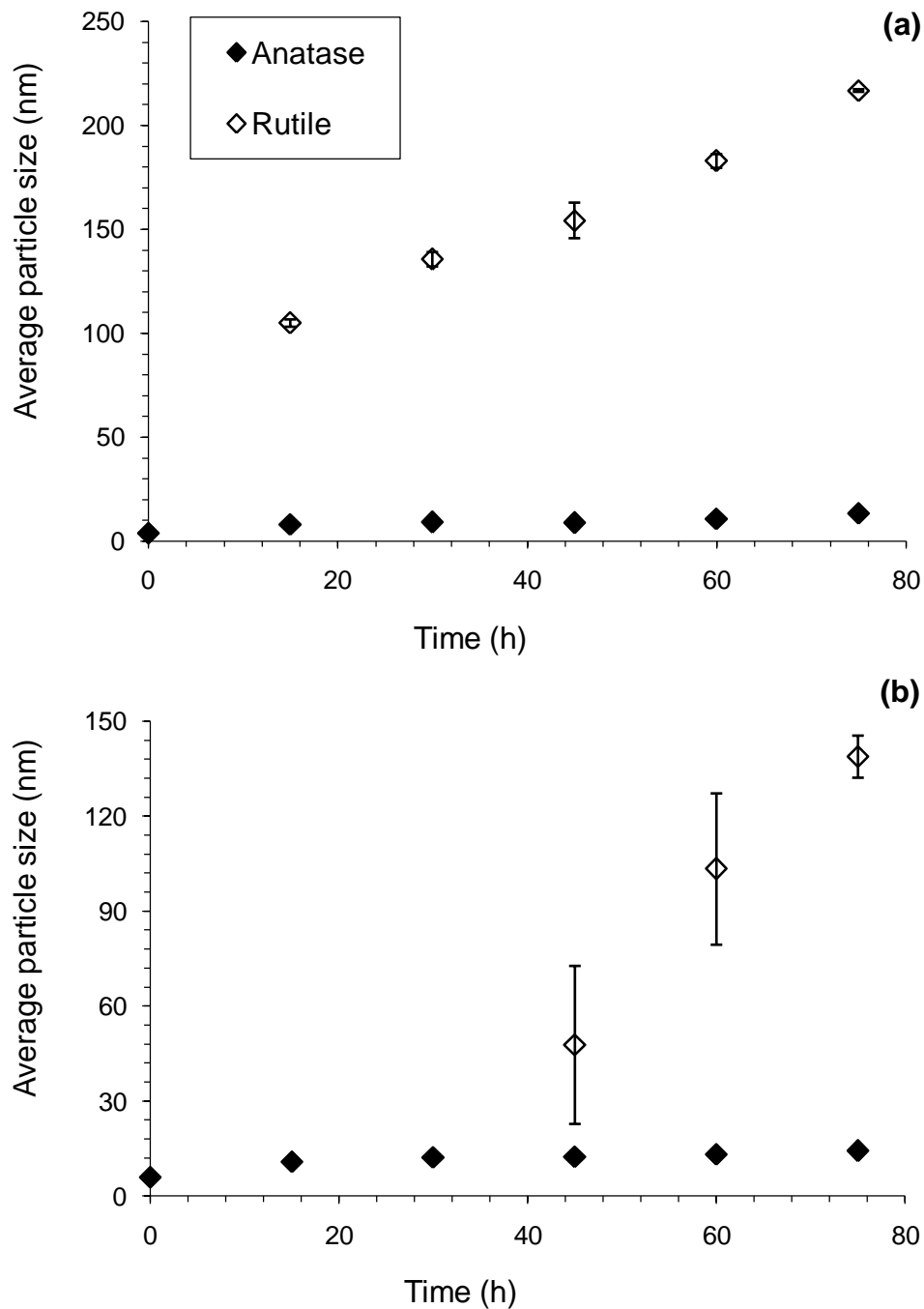
Two-Step Phase Transformation of Anatase to Rutile in Aqueous Suspension

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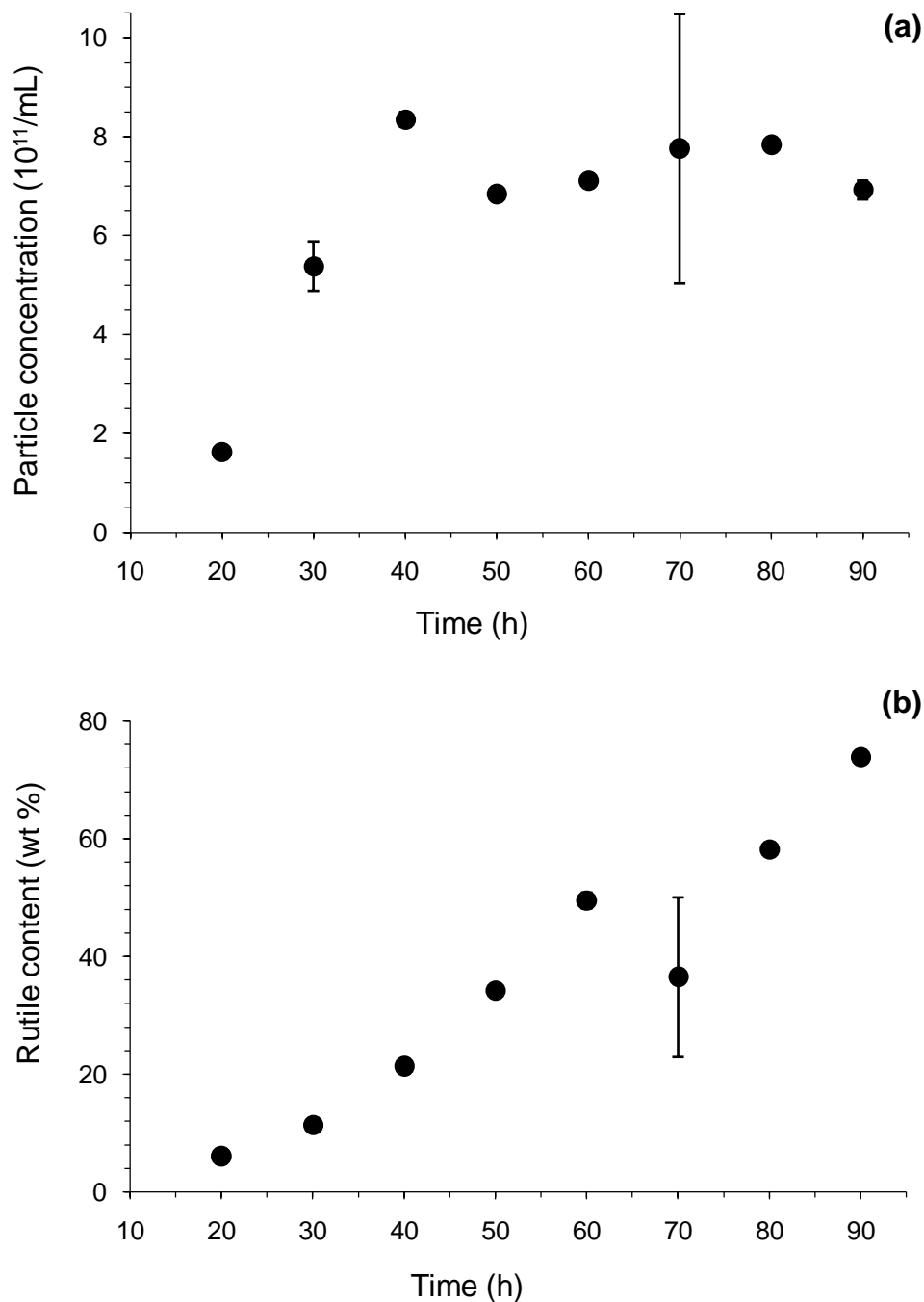
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ESI Fig.1 Plots showing average anatase and rutile sizes as a function of aging time for the samples initially containing 3.7 nm (a) and 6.0 nm (b) anatase. The sizes were determined by XRD peak broadening analysis using Scherrer equation.



ESI Fig.2 Plots showing number of rutile nanocrystals per mL of suspension (a) and rutile content (b) as a function of aging time for the sample initially containing 3.7 nm anatase. It should be noted that the calculated rutile number concentration is a rough estimate as it was calculated assuming rutile nanocrystals as spheres even though different shaped rutile nanocrystals were observed, including rod-shaped ones.