Electronic Supplementary Material (ESI) for Nanoscale Horizons.

Determination of the Length and Diameter of Nanorods by a Combination of Analytical Ultracentrifugation and Scanning Mobility Particle Sizer

T. Thajudeen,[a,b,*] J. Walter,[a,b] R. Srikantharajah,[a] C. Lübbert[a,b] and W. Peukert[a,b,*]

[a.] Institute of Particle Technology (LFG), Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU), Cauerstr. 4, 91058 Erlangen, Germany. Tel.: +49 9131 8529401; E-mail: thaseem.thajudeen@fau.de, wolfgang.peukert@fau.de

[b.] Interdisciplinary Center for Functional Particle Systems (FPS), Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU), Haberstr. 9a, 91058 Erlangen, Germany.

Supporting Information

1. Results for Au Nanorods

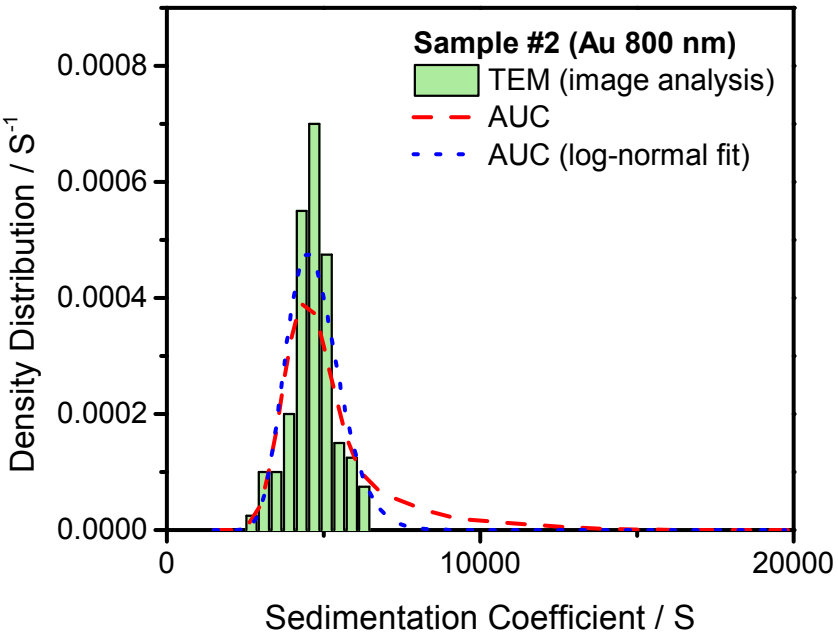

Figure S1 Analysis results for Au NR sample #2. Expected sedimentation coefficient distribution obtained from theoretical calculations from TEM image analysis, normalized distributions obtained from AUC measurements and the log-normal distribution fit to the AUC data.

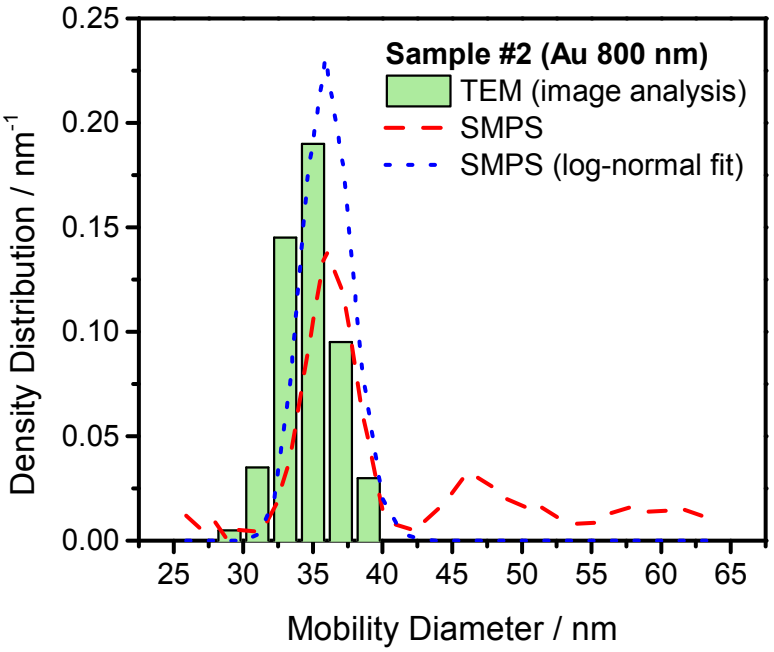

Figure S2 Analysis results for Au NR sample #2. Expected mobility diameter distribution obtained based on theoretical calculations from TEM image analysis, normalized distributions obtained from SMPS measurements and the log-normal distribution fit to the SMPS data.

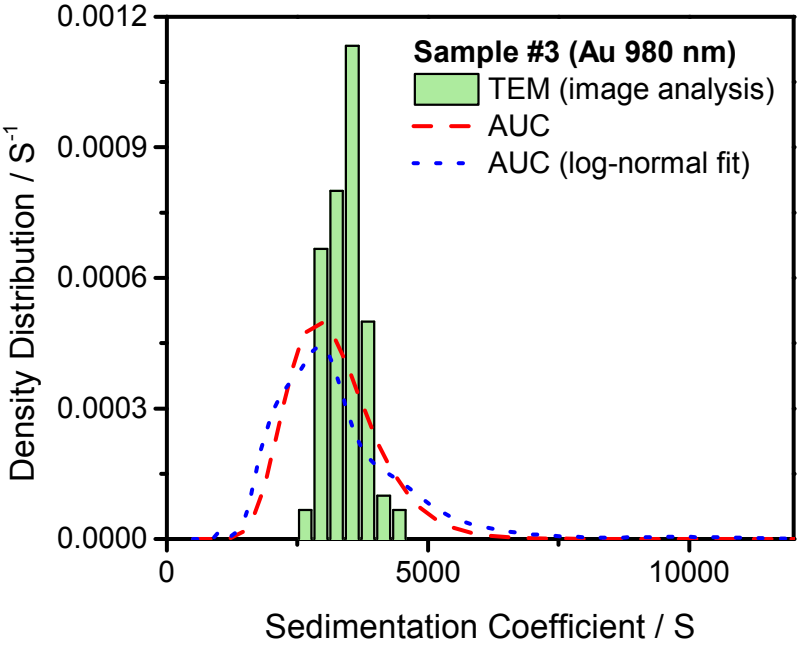

Figure S3 Analysis results for Au NR sample #3. Expected sedimentation coefficient distribution obtained from theoretical calculations from TEM image analysis, normalized distributions obtained from AUC measurements and the log-normal distribution fit to the AUC data.

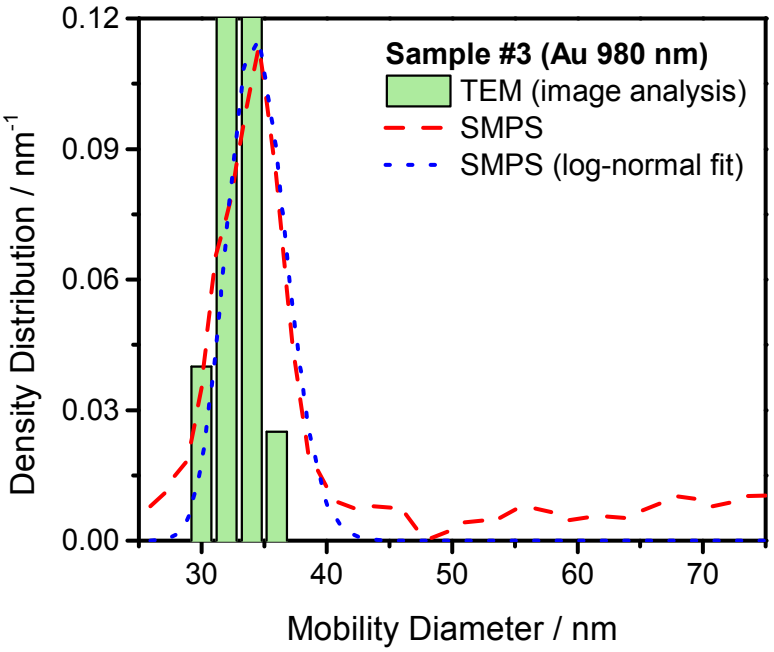

Figure S4 Analysis results for Au NR sample #3. Expected mobility diameter distribution obtained based on theoretical calculations from TEM image analysis, normalized distributions obtained from SMPS measurements and the log-normal distribution fit to the SMPS data.

2. Results for ZnO Nanorods

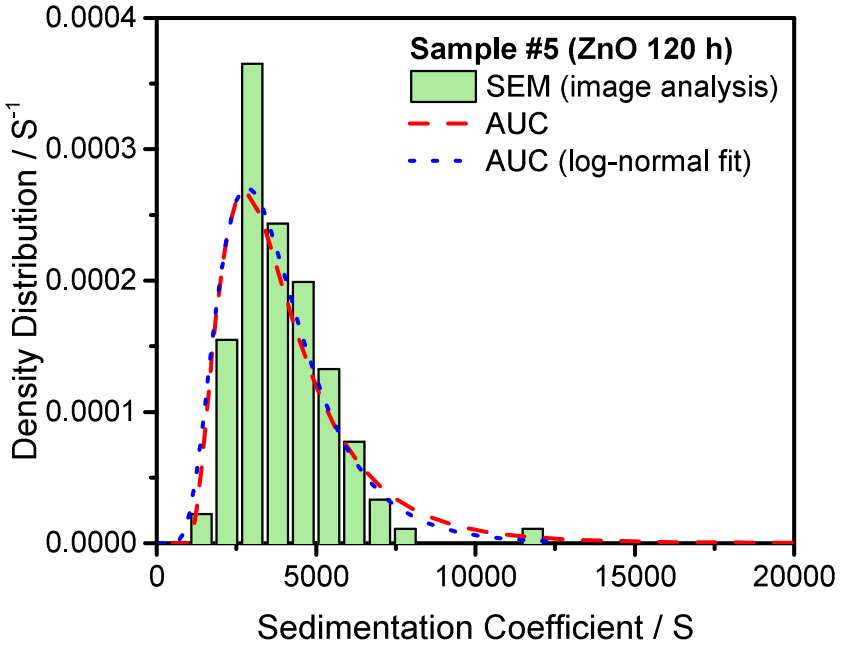

Figure S5 Analysis results for ZnO NR sample #5. Expected sedimentation coefficient distribution obtained from theoretical calculations from SEM image analysis, normalized distributions obtained from AUC measurements and the log-normal distribution fit to the AUC data.

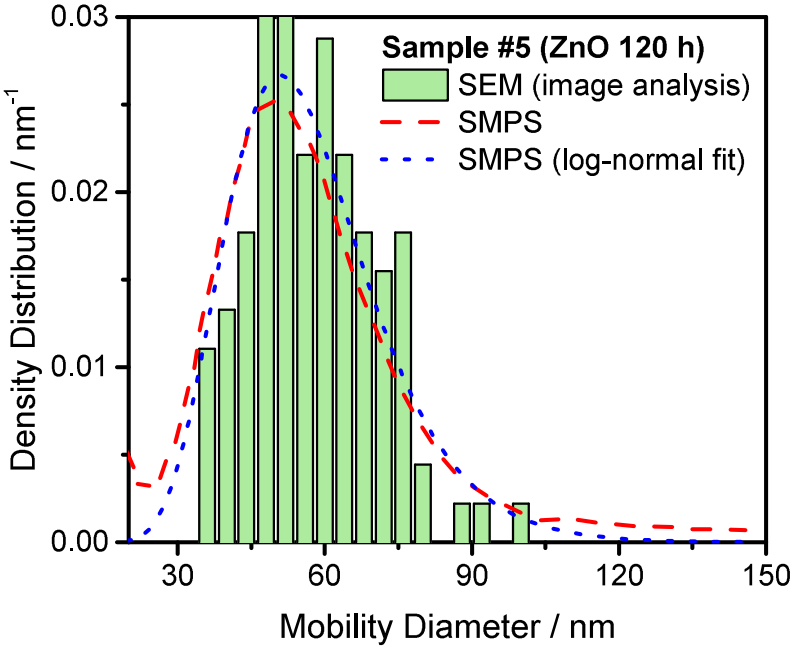

Figure S6 Analysis results for ZnO NR sample #5. Expected mobility diameter distribution obtained based on theoretical calculations from SEM image analysis, normalized distributions obtained from SMPS measurements and the log-normal distribution fit to the SMPS data.