Supplemental Information,
Design and optimization of a Medium Flow Differential Mobility Analyzer (MF-DMA) for classification of high-density particles

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| *Figure S1 Width* $R^{-1}$ *(left) and the height* $α$ *(right) of the transfer function of the Short MF-DMA for a flow ratio* $β=0.33$ *and an aerosol inlet gap of 1 mm.*  |
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| *Figure S2 Width* $R^{-1}$ *(left) and the height* $α$ *(right) of the transfer function of the Short MF-DMA for a flow ratio* $β=0.2$ *and an aerosol inlet gap of 1 mm.* |
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| *Figure S3 Width* $R^{-1}$ *(left) and the height* $α$ *(right) of the transfer function of the Short MF-DMA for a flow ratio* $β=0.1$ *and an aerosol inlet gap of 1 mm.* |
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| *Figure S4 Area plot of the transfer function of the Long MF-DMA (left) and the Short MF-DMA (right) for a flow ratio* $β=0.33$ *and an aerosol inlet gap of 1 mm.*  |
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| *Figure S5 Area plot of the transfer function of the Long MF-DMA (left) and the Short MF-DMA (right) for a flow ratio* $β=0.2$ *and an aerosol inlet gap of 1 mm.* |
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| *Figure S6 Area plot of the transfer function of the Long MF-DMA (left) and the Short MF-DMA (right) for a flow ratio* $β=0.1$ *and an aerosol inlet gap of 1 mm.* |