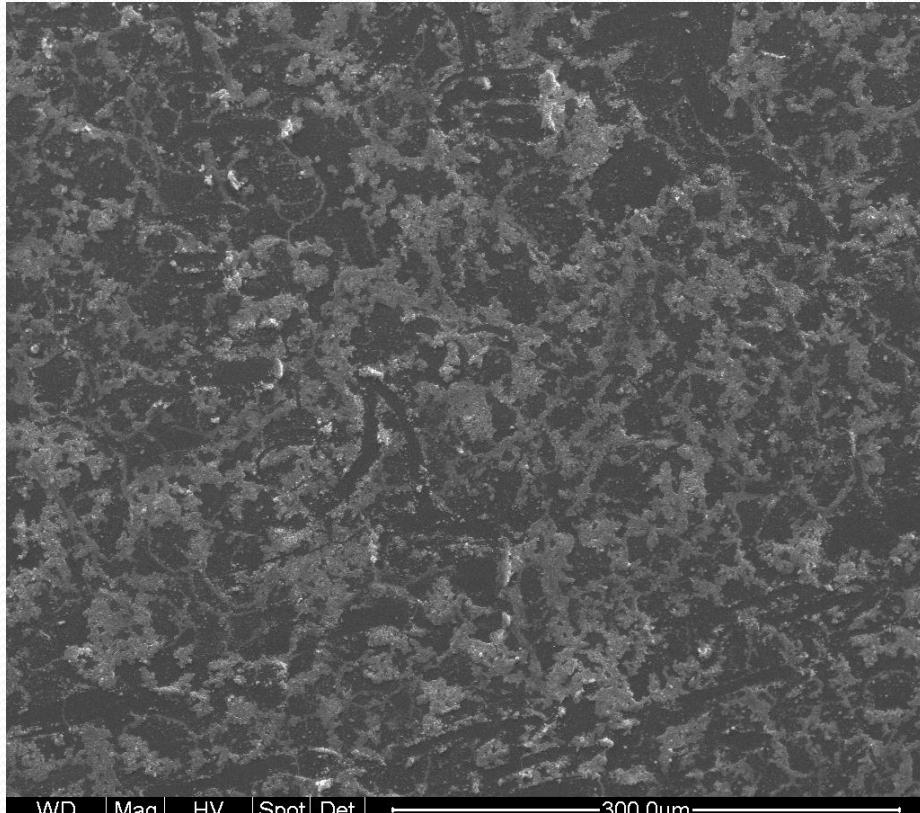


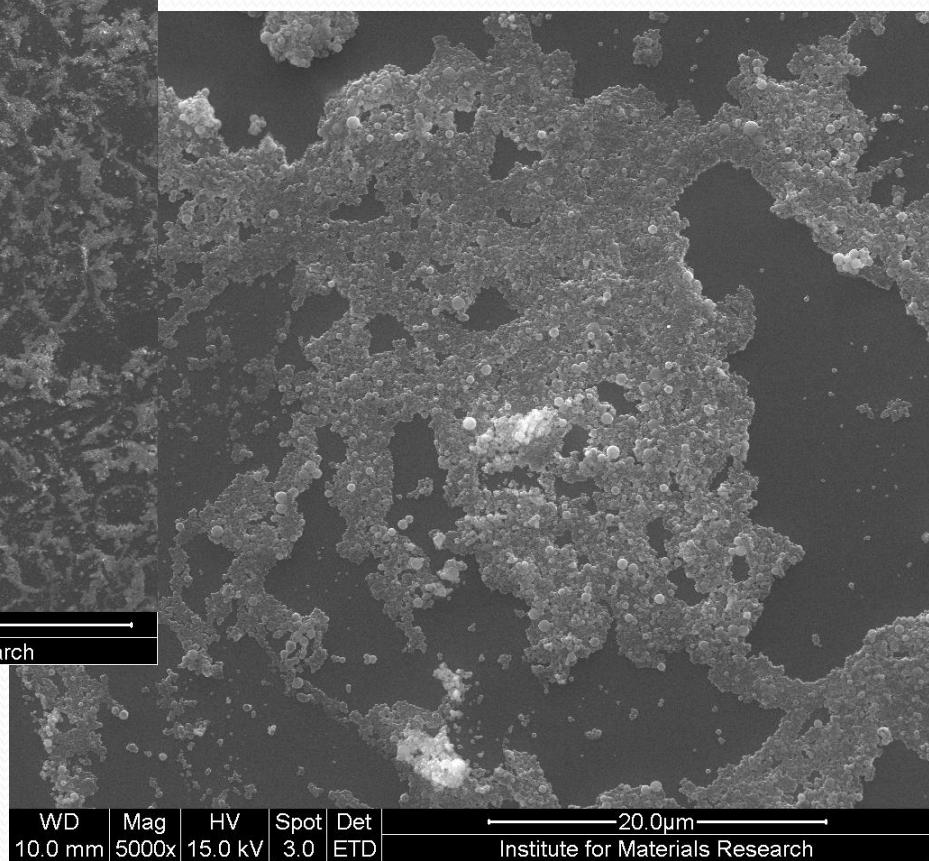
SEM Images

Spray coat with PS/SDS solution
30% ethanol / 1% solid
Washed NP

60°C 0,2ml/min

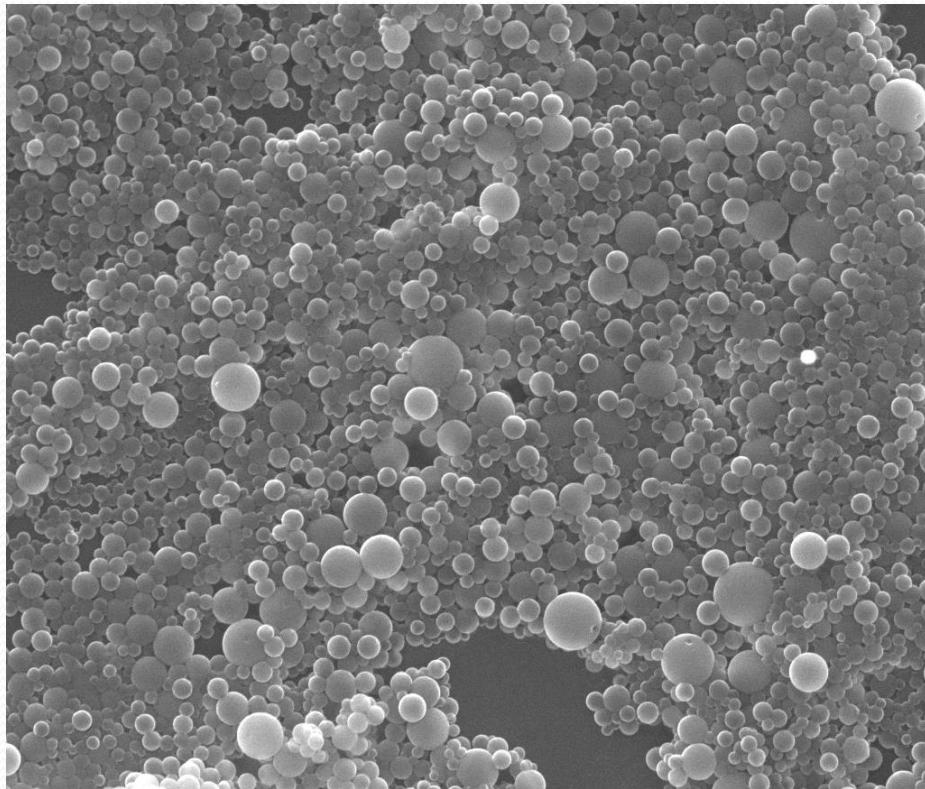


WD | Mag | HV | Spot | Det | ————— 300.0μm —————
10.0 mm | 500x | 15.0 kV | 3.0 | ETD | Institute for Materials Research

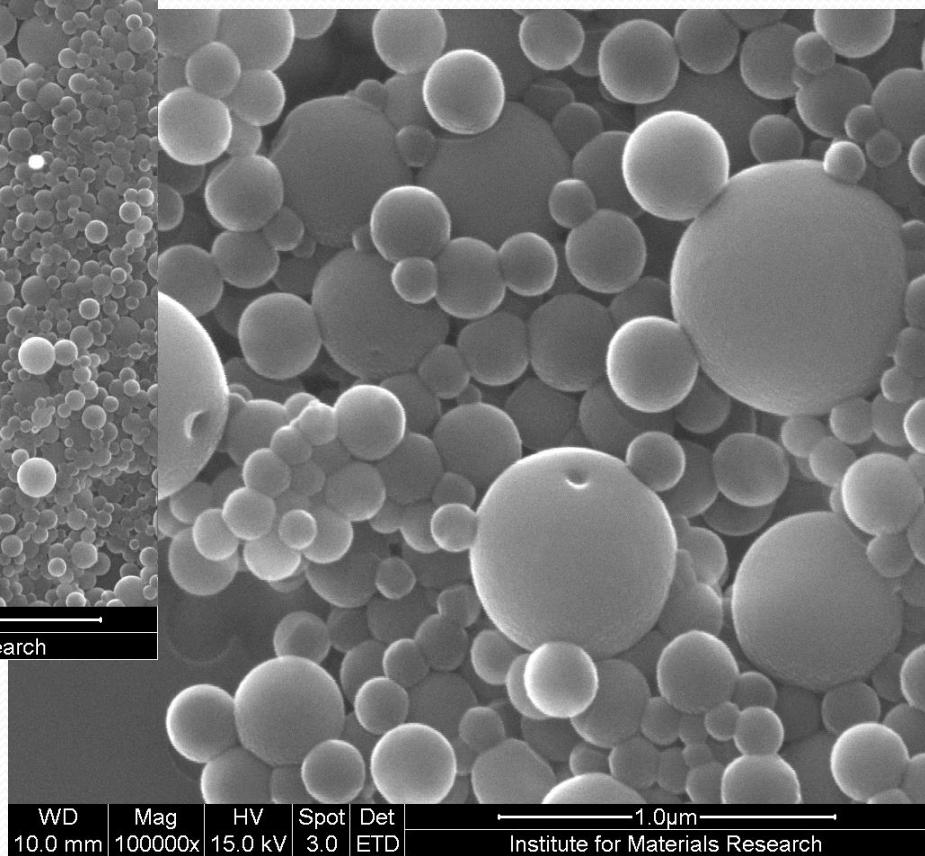


WD | Mag | HV | Spot | Det | ————— 20.0μm —————
10.0 mm | 5000x | 15.0 kV | 3.0 | ETD | Institute for Materials Research

60°C 0,2ml/min

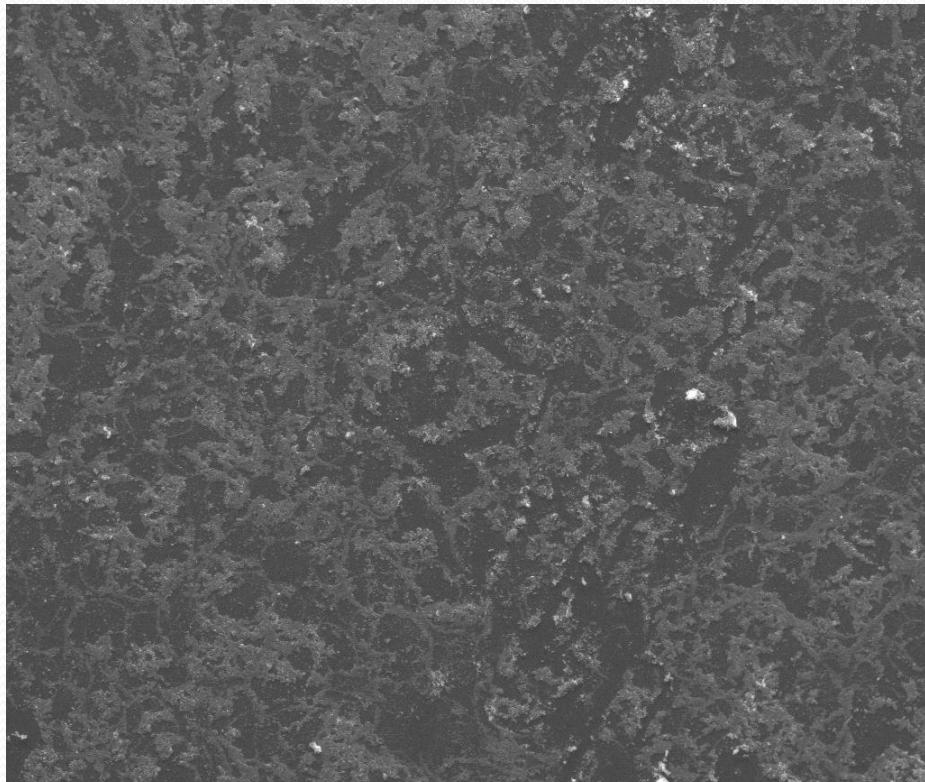


WD | Mag | HV | Spot | Det | :-----| 5.0 μm
10.0 mm | 25000x | 15.0 kV | 3.0 | ETD | Institute for Materials Research

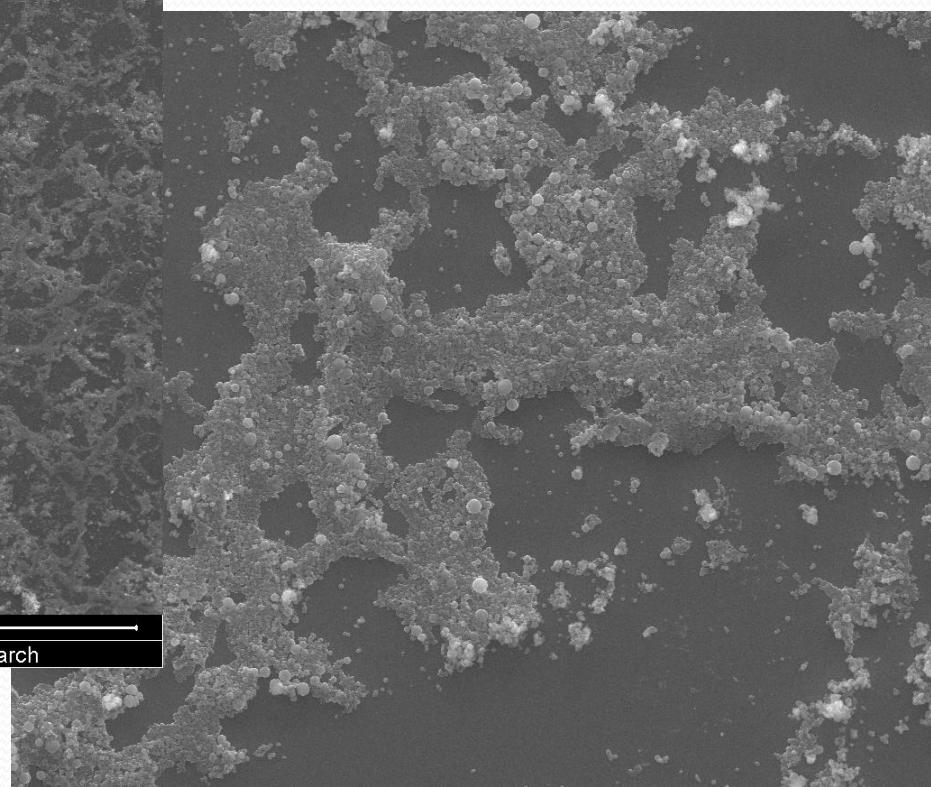


WD | Mag | HV | Spot | Det | :-----| 1.0 μm
10.0 mm | 100000x | 15.0 kV | 3.0 | ETD | Institute for Materials Research

70°C 0,2ml/min

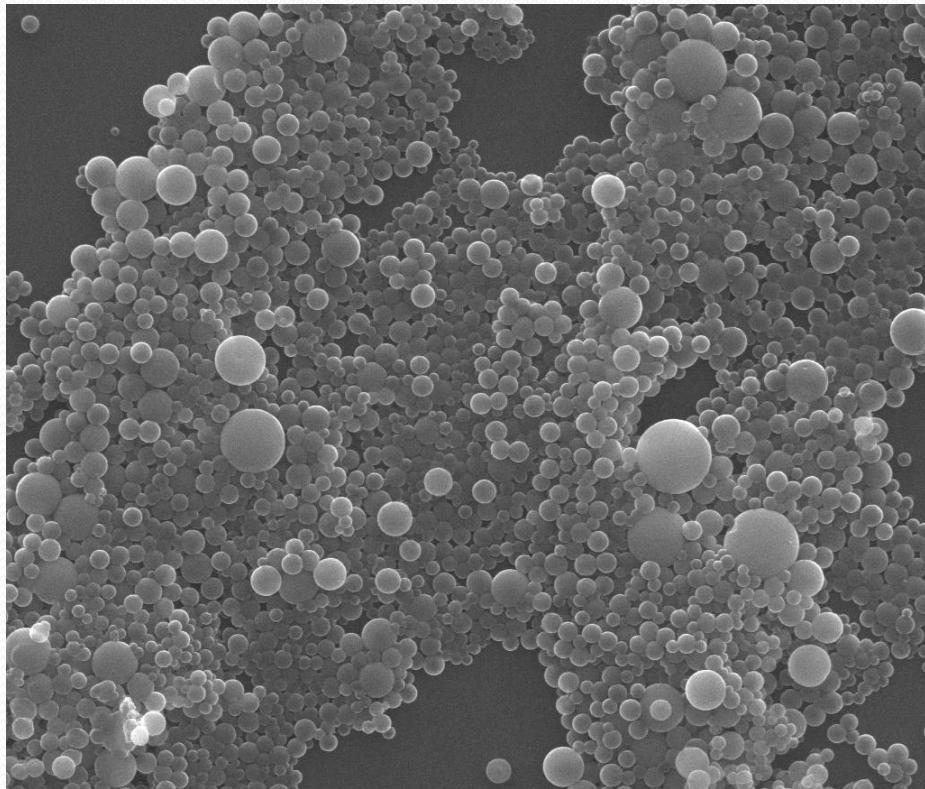


WD | Mag | HV | Spot | Det | 300.0µm
10.1 mm | 500x | 15.0 kV | 3.0 | ETD | Institute for Materials Research

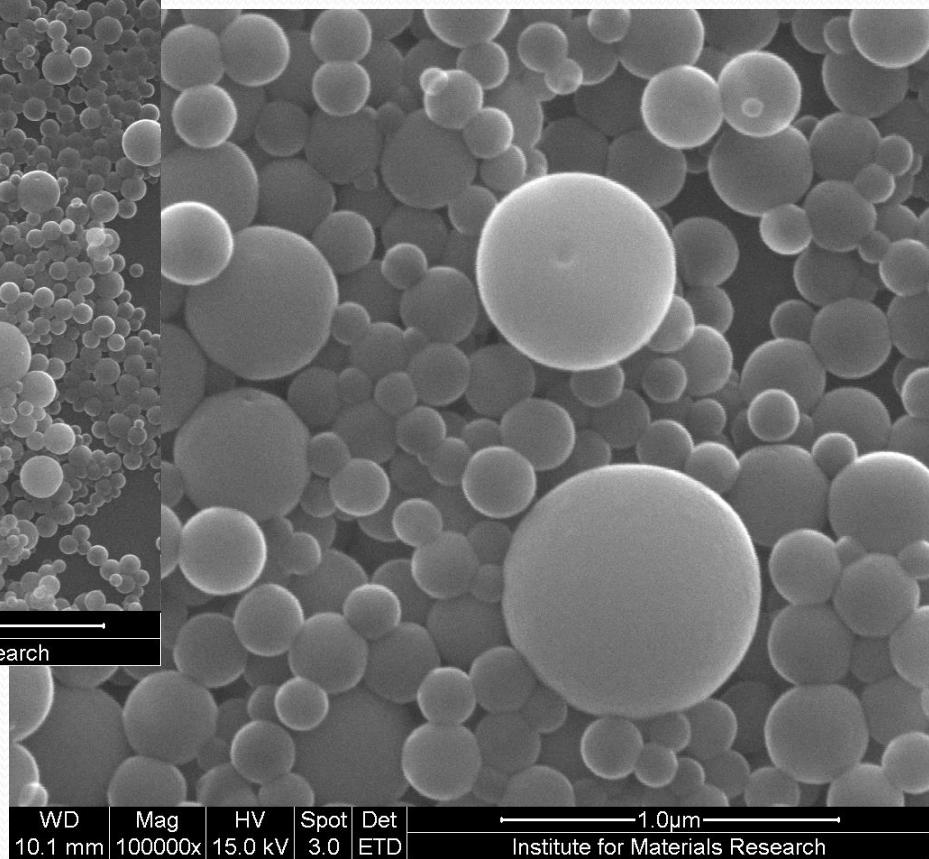


WD | Mag | HV | Spot | Det | 20.0µm
10.1 mm | 5000x | 15.0 kV | 3.0 | ETD | Institute for Materials Research

70°C 0,2ml/min

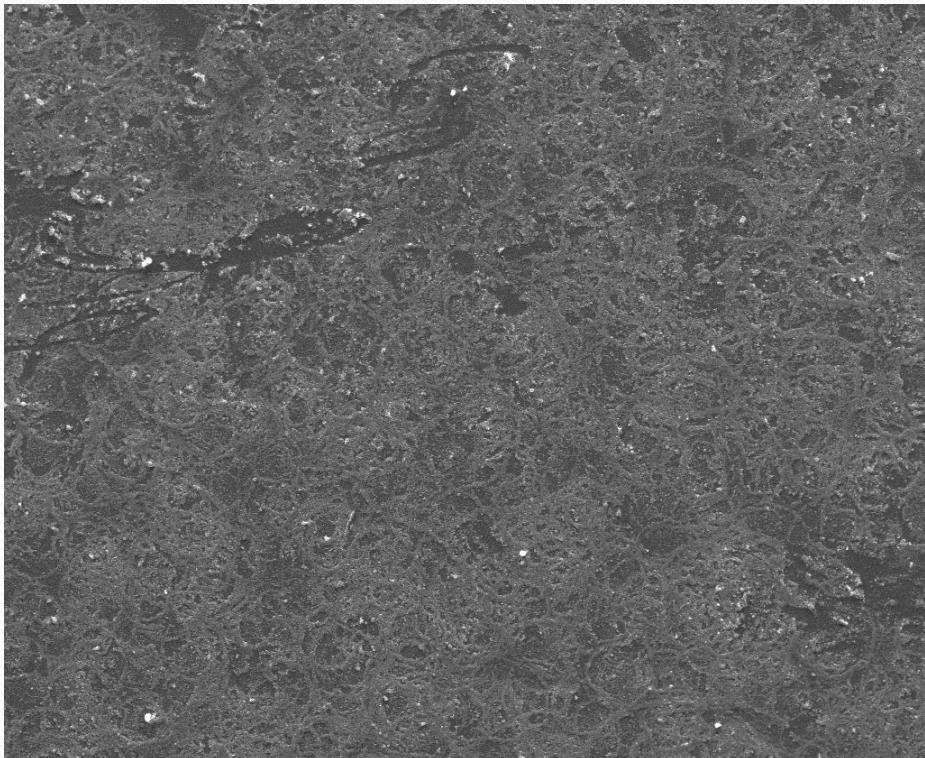


WD | Mag | HV | Spot | Det | —————— 5.0 μm ——————
10.1 mm | 25000x | 15.0 kV | 3.0 | ETD | Institute for Materials Research

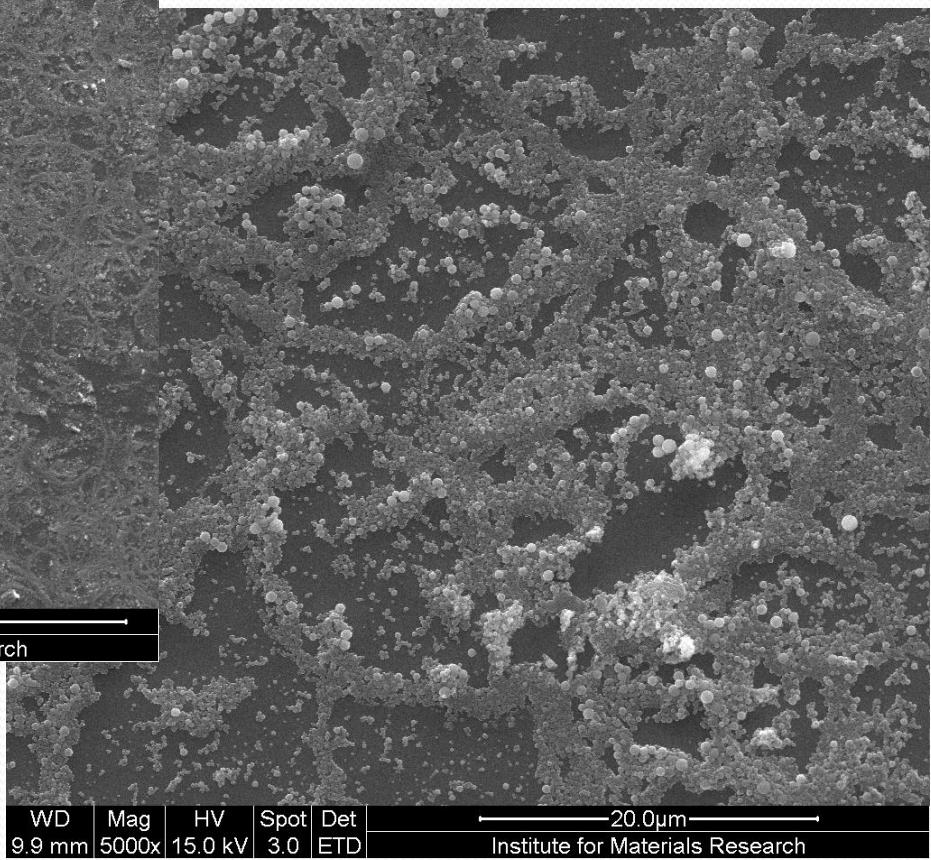


WD | Mag | HV | Spot | Det | —————— 1.0 μm ——————
10.1 mm | 100000x | 15.0 kV | 3.0 | ETD | Institute for Materials Research

80°C 0,2ml/min

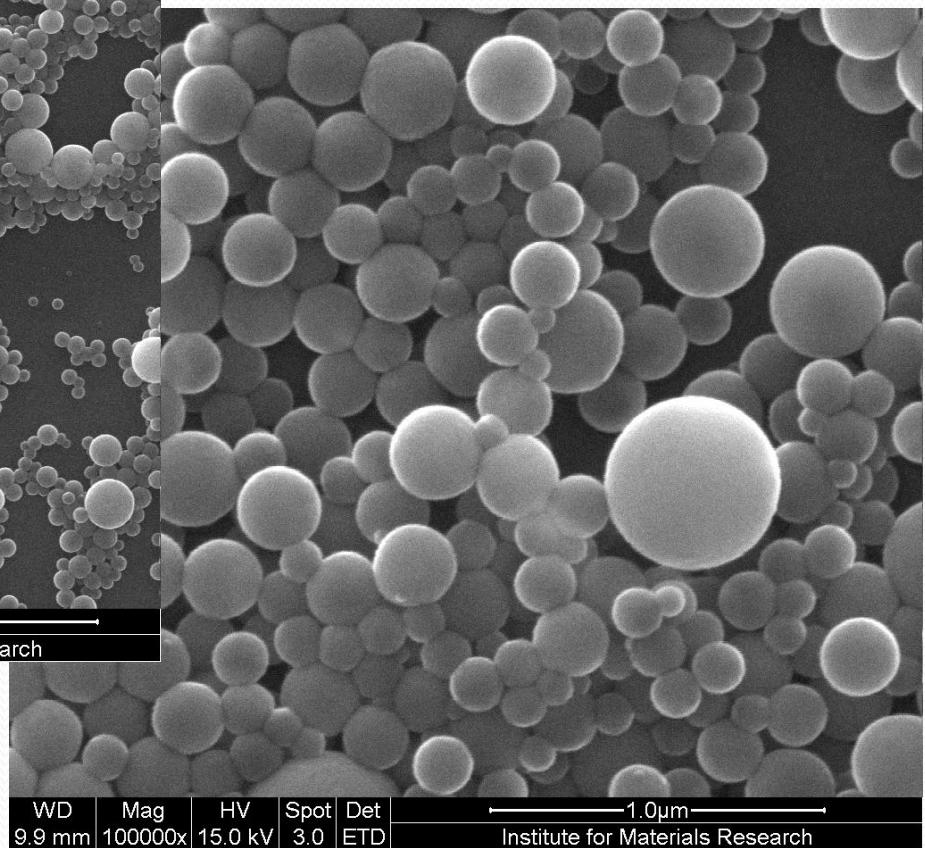
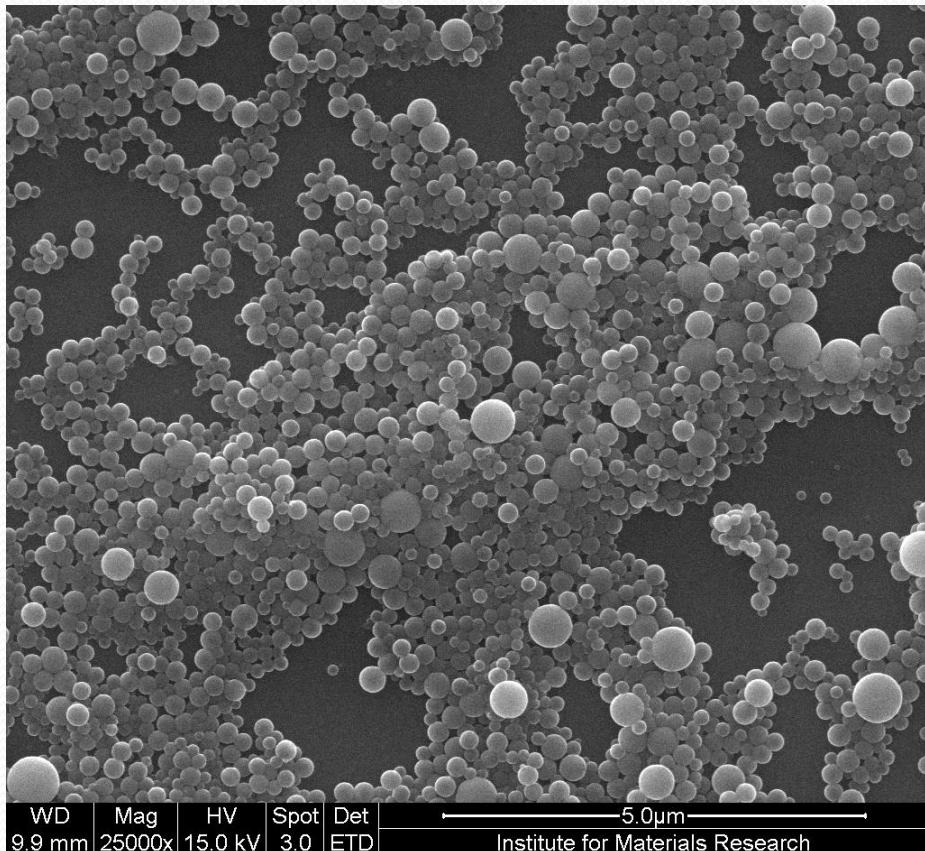


WD | Mag | HV | Spot | Det | 300.0µm
9.9 mm | 500x | 15.0 kV | 3.0 | ETD | Institute for Materials Research

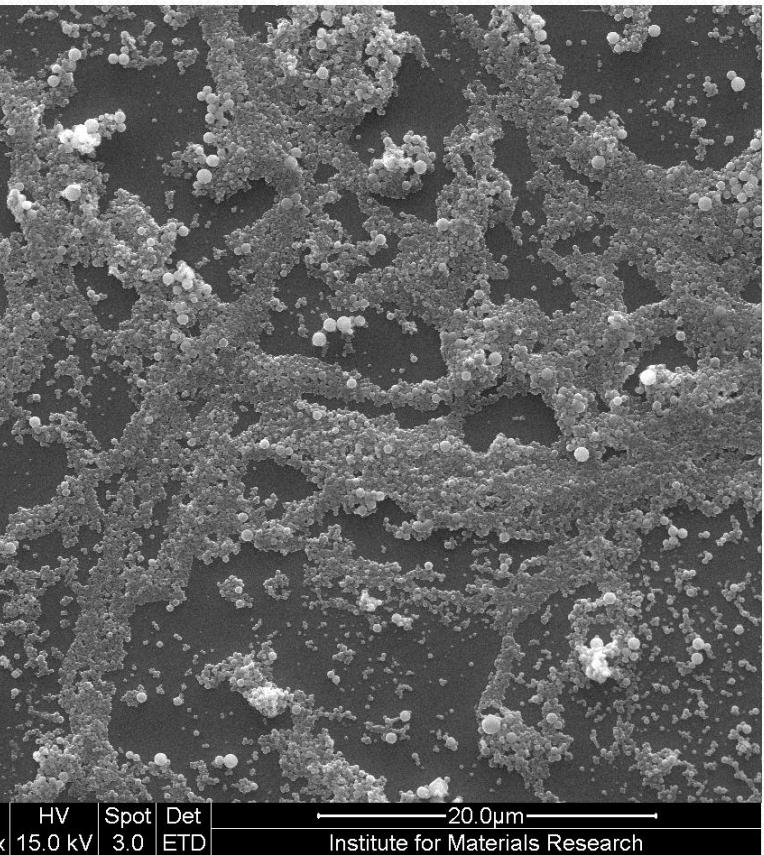
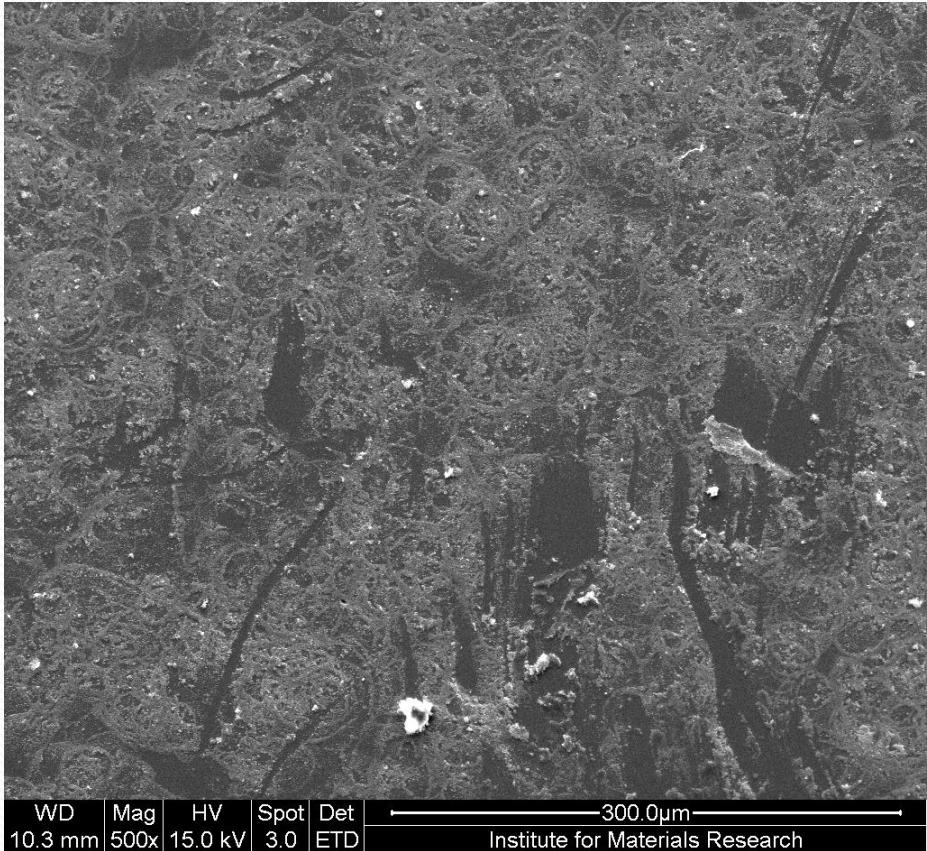


WD | Mag | HV | Spot | Det | 20.0µm
9.9 mm | 5000x | 15.0 kV | 3.0 | ETD | Institute for Materials Research

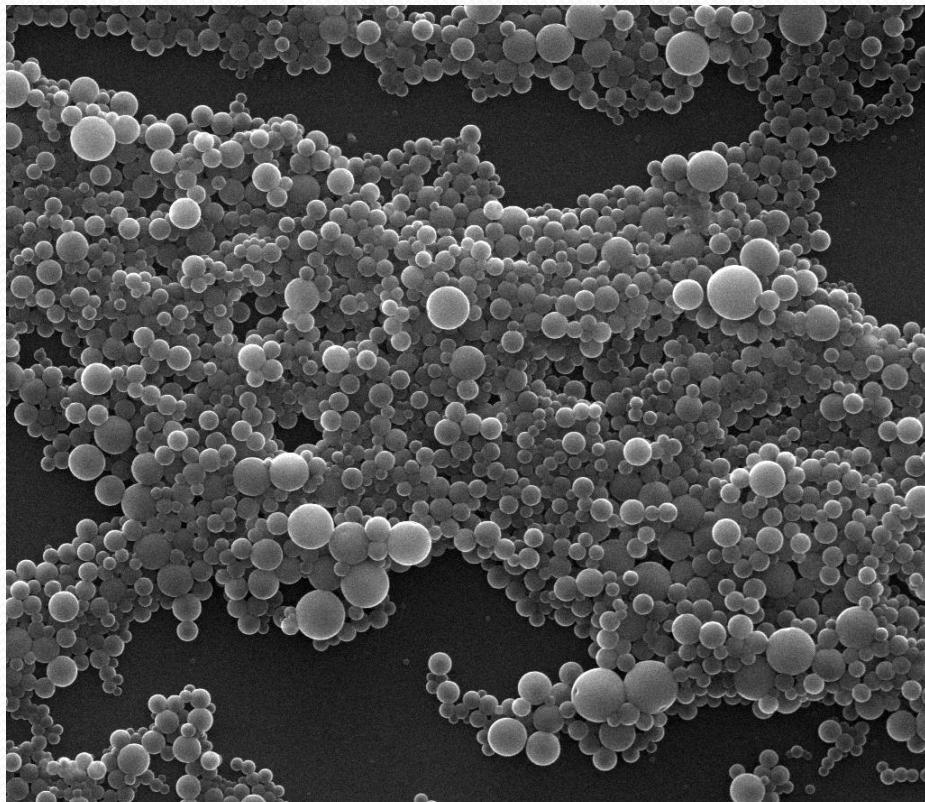
80°C 0,2ml/min



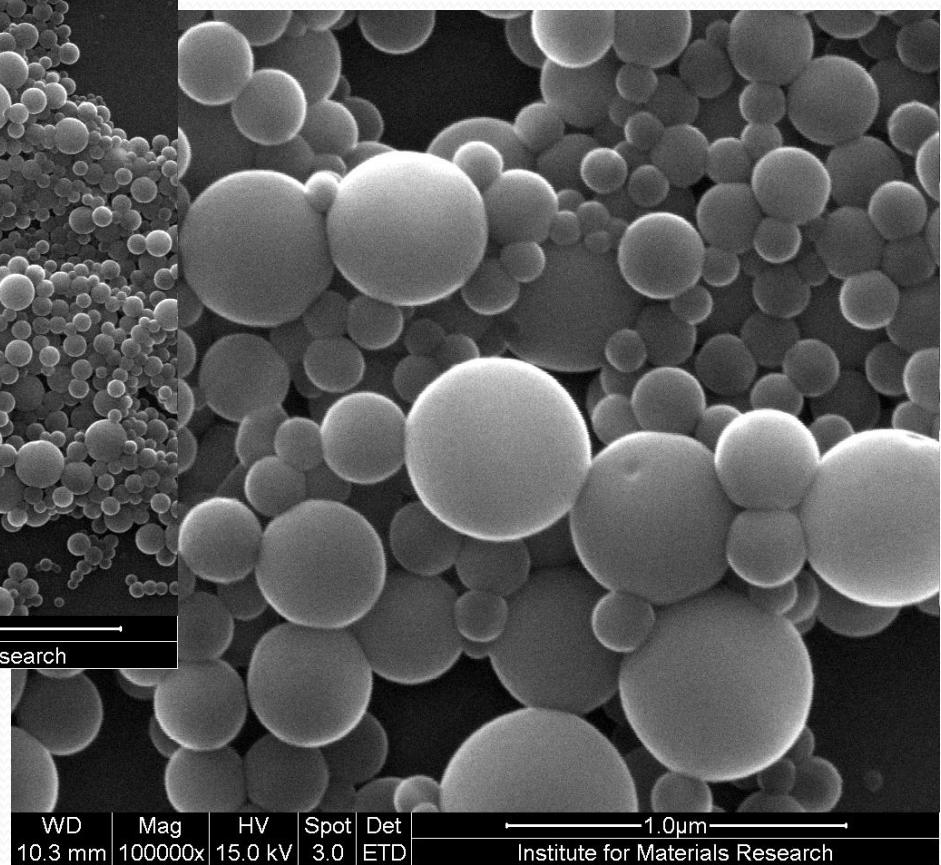
90°C 0,2ml/min



90°C 0,2ml/min



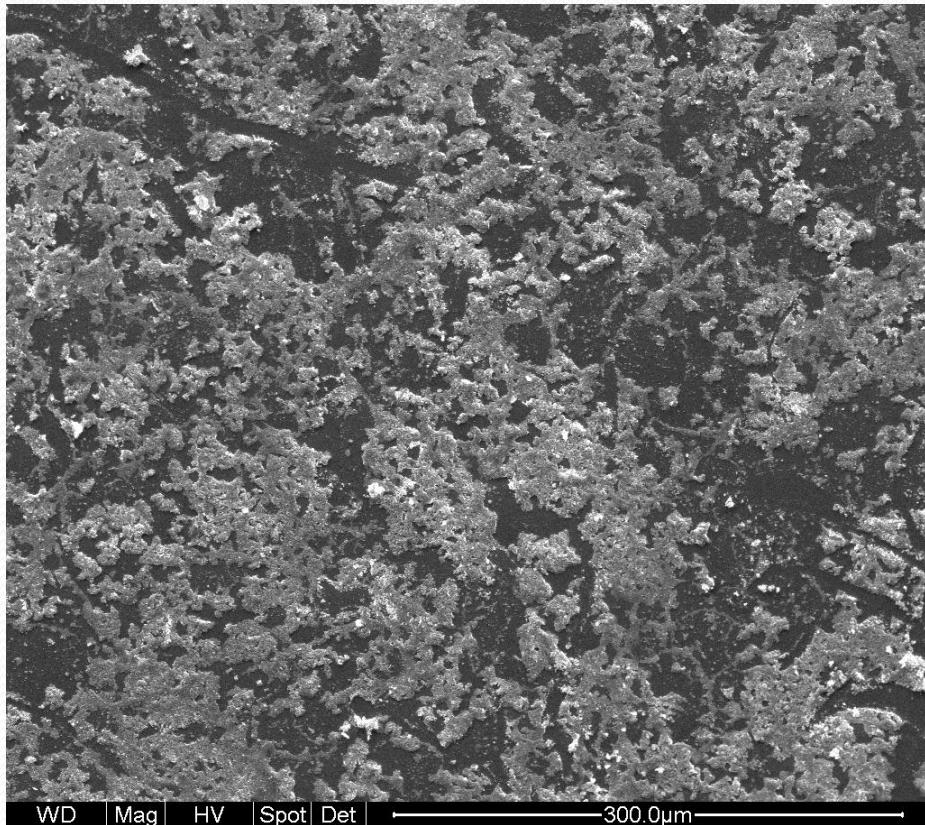
WD | Mag | HV | Spot | Det | 5.0 μm
10.3 mm | 25000x | 15.0 kV | 3.0 | ETD



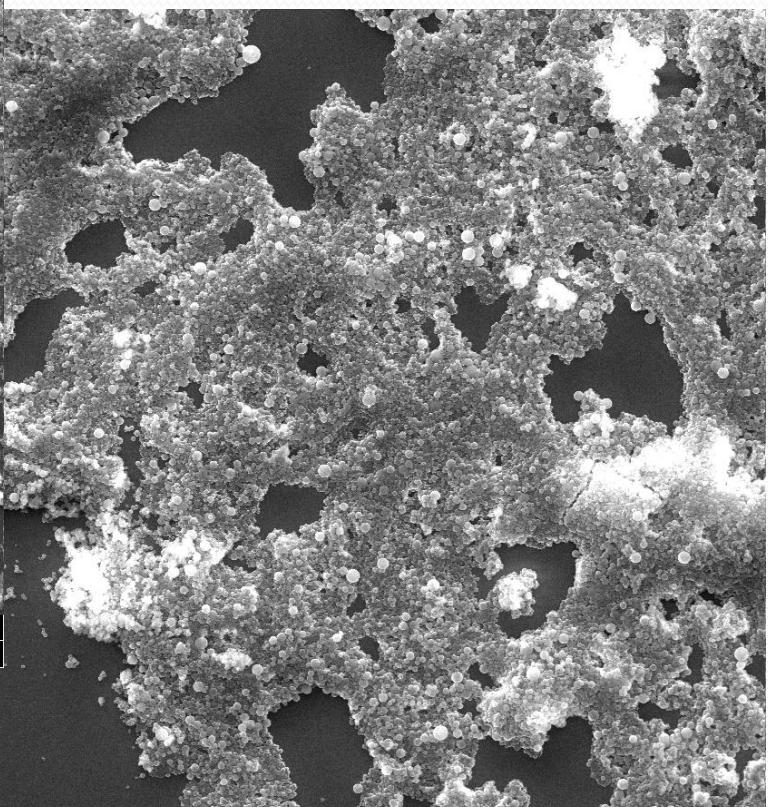
WD | Mag | HV | Spot | Det | 1.0 μm
10.3 mm | 100000x | 15.0 kV | 3.0 | ETD

Institute for Materials Research

70°C 0,3ml/min

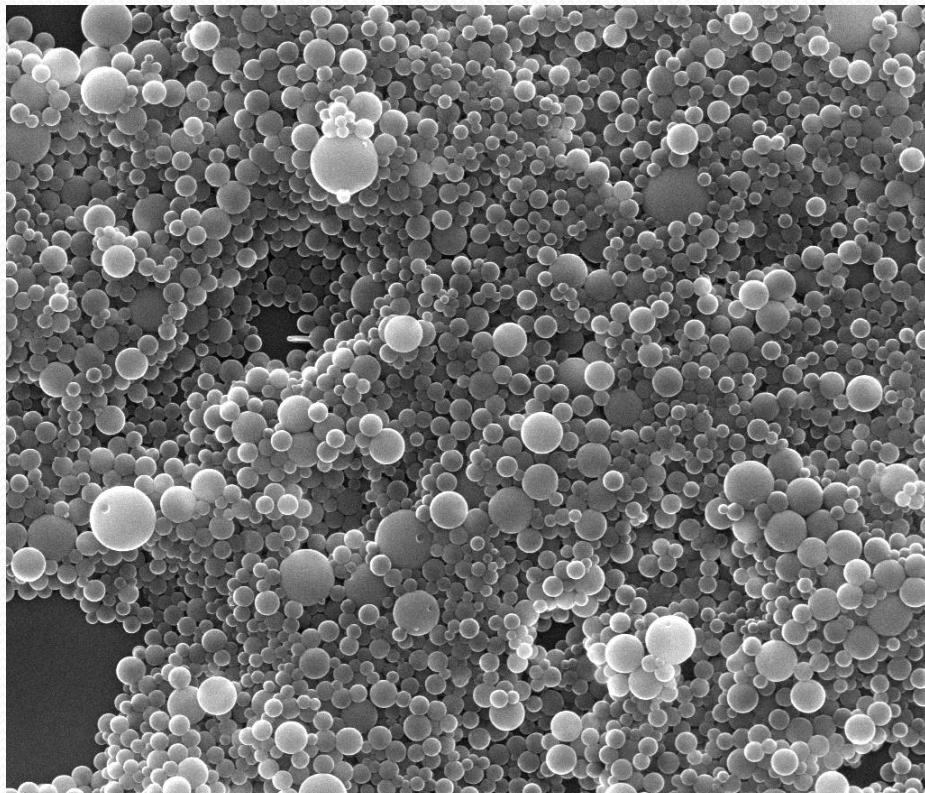


WD | Mag | HV | Spot | Det | 300.0 μm
10.2 mm | 500x | 15.0 kV | 3.0 | ETD | Institute for Materials Research

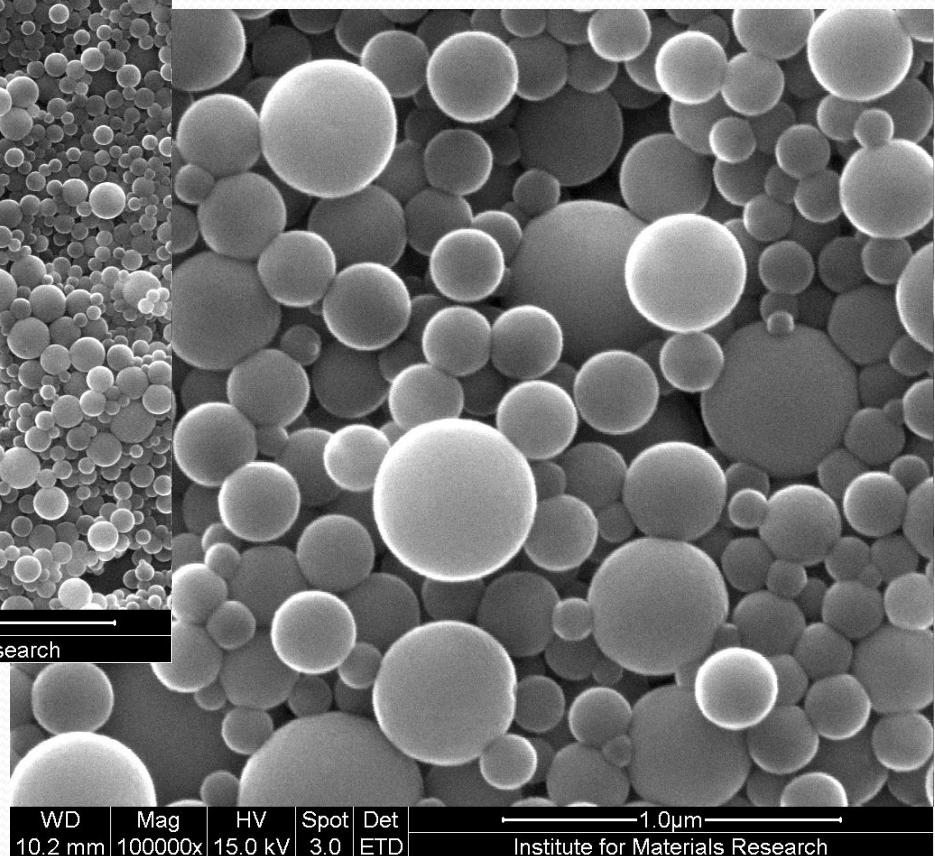


WD | Mag | HV | Spot | Det | 20.0 μm
10.2 mm | 500x | 15.0 kV | 3.0 | ETD | Institute for Materials Research

70°C 0,3ml/min



WD | Mag | HV | Spot | Det | —————— 5.0 μm ——————
10.2 mm | 25000x | 15.0 kV | 3.0 | ETD | Institute for Materials Research



WD | Mag | HV | Spot | Det | —————— 1.0 μm ——————
10.2 mm | 100000x | 15.0 kV | 3.0 | ETD | Institute for Materials Research

Conclusion

- The best flow rate were 0.1 and 0.2 ml/min
- It still have some holes
- The next step was print with a 70% ethanol solution