

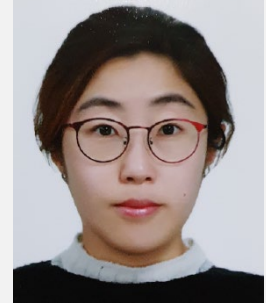
# Joint International Conference on ICMAP 2020 & ISFM 2020

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PHOENIX JEJU Hotel & Resort, Jeju Island, Korea

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## Dr. Seolhye Park

Mobile Display Dry & Doping Technology Team,  
Samsung Display Co., Ltd., Republic of Korea



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### Education

Ph.D., Nuclear Engineering, Seoul National University, Seoul National University, Seoul, Korea (2015).

### Research Positions

- Research Center of Samsung Display Co., Ltd., Republic of Korea  
Senior Engineer (2015 – 2016)
- Mobile Display Dry & Doping Technology Team of Samsung Display Co., Ltd., Republic of Korea  
Staff Engineer (2017 – Present)  
Plasma Information based Virtual Metrology (PI-VM) based Process Control

### Research Interests

- Plasma Process Monitoring, Diagnosis, Virtual Metrology and Control
- Low Temperature Plasma Physics and Sheath Theory
- Optical Diagnostics of the Process Plasma
- OLED Display Manufacturing Plasma Processes

### Recent Publications

- (1) Seolhye Park et al., "Application of PI-VM for management of the metal target plasma etching processes in OLED display manufacturing", Plasma Phys. Control. Fusion 61 (2019) 014032.
- (2) Seolhye Park et al., "Cause analysis of the faults in HARC etching processes by using the PI-VM model for OLED display manufacturing", Plasma Process Polym. 16 (2019) 9.
- (3) Seolhye Park et al., "Predictive control of the plasma processes in the OLED display mass production referring to the discontinuity qualifying PI-VM", Phys. Plasmas 27 (2020) 083507.