

## William Jo



Dept. of Physics, Ewha Womans Univ.  
52, Ewhayeodae-gil, Seodaemun-gu,  
Seoul 03760 Republic of Korea  
PHONE : 82-2-3277-4066  
FAX : 82-2-3277-3834  
E-mail : wmjo@ewha.ac.kr

### EDUCATIONAL BACKGROUND

- 1990 B.S., Seoul National University
- 1992 M.S., Seoul National University
- 1995 Ph.D., Seoul National University with Prof. Tae W. Noh

### WORK EXPERIENCE

- 1995 – 1999 Member of Technical Staff, LG Electronics
- 1999 – 2003 Post-doc/Research Associate, Geballe Lab for Materials,  
Stanford University with Prof. M. R. Bealsey
- 2003 – Present Assistant/Associate/Full Professor, Ewha Womans University
- 2017 – 2019 Associate Vice President, Office of Research  
Vice President, University-Industry Collaboration Foundation
- 2018 – Present Director, New and Renewable Energy Research Center

### SOCIAL ACTIVITIES

- 2009 – 2010 Secretary of Conference, the Korean Physical Society
- 2013 – 2014 Secretary General, the Korean Physical Society
- 2015 – 2018 Review Board, the National Research Foundation
- 2019 – Present Chair of the Policy Committee (Vice-President), the Korean Physical Society

### SELECTED PUBLICATIONS

- [1] “Low Voltage and Ferroelectric 2D Electron Devices Using Lead-free  $\text{Ba}_x\text{Sr}_{1-x}\text{TiO}_3$  and  $\text{MoS}_2$  Channel”, *Advanced Functional Materials*, **29**, 1908210 (2019).
- [2] “Reconfigurable dipole-induced resistive switching of  $\text{MoS}_2$  thin-layers on  $\text{Nb:SrTiO}_3$ ”, *ACS Applied Materials and Interfaces* **11**, 46344 (2019).
- [3] “Adjusting anisotropy of one-dimensional  $\text{Sb}_2\text{Se}_3$  nanostructure for highly efficient photoelectrochemical water splitting”, *Advanced Energy Materials*, **18**, 1702888 (2018).
- [4] “Virtual out-of-plane piezoelectric response in  $\text{MoS}_2$  layers controlled by ferroelectric polarization”, *ACS Applied Materials and Interfaces* **10**, 1334 (2018).
- [5] “Control of work function of  $\text{MoS}_2$  assisted by ferroelectric polarization with honeycomb-like structures”, *Applied Physics Letters*, **110**, 191601 (2017)..