Deok-Yong Cho, Ph.D.



Assistant Professor, Department of Physics, Chonbuk National University

## BIRTH: July 13, 1977 (M)

## EDUCATION

Mar. 1996 - Feb. 2000: Undergraduate course in Dept. of Physics and Astronomy, Seoul National University, Korea

Mar. 2000 - Feb. 2007: Master/Ph. D course in Dept. of Physics and Astronomy, Seoul National University, Korea (supervisor: Prof. Se-Jung Oh)

(Apr. 2004 –Dec. 2004: Beamline assistant in micro-beam photoemission beamline in Pohang Light Source, Korea)

## RESEARCH CAREER

Mar. 2007 – Feb. 2009: Postdoctoral course in Dept. of Materials Science and Engineering, Seoul National University, Korea (supervised by Prof. Cheol Seong Hwang)

Mar. 2009 – Feb. 2010 : BK21 research assistant professor in Dept. of Physics, Sungkyunkwan University, Korea (hosted by Prof. Je-Geun Park)

Mar. 2010 – Jul. 2011 : BK21 assistant professor in Dept. of Physics and Astronomy, Seoul National University, Korea (hosted by Prof. Je-Geun Park)

Aug. 2011– Jan. 2013 : Alexander von Humboldt postdoctoral fellow at Institut für Werkstoffe der Elektrotechnik II in RWTH Aachen, Germany (hosted by Prof. Dr. Rainer Waser)

Feb. 2013– Mar. 2014 : Staff scientist (spectroscopy team leader), associate research professor in Center for Correlated Electron Systems (Prof. Tae Won Noh’s group), Institute for Basic Science (IBS), Seoul National University, Korea

Mar. 2014- present : Assistant Professor, Department of Physics, Chonbuk National University, Korea

# MAJOR EXPERIMENTAL TECHNIQUES

Photoelectron spectroscopy (PES), X-ray absorption spectroscopy (XAS), fine structure analysis (XAFS), and their theoretical simulations.

## MAJOR RESEARCH FIELDS by materials

High-k oxides (HfO2, ZrO2, and their derivatives), transition metal oxides (manganites, 5*d* TMOs), transparent conducting oxide materials (InGaZnO and ZnO), electrochemical resistance switching materials (Ag/GeS, Cu/SiO2, and Ag/AgI) etc.

* PUBLICATIONS: ResearcherID: **I-4694-2013** / ORCiD: 0000-0001-5789-8286

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