

NANO KOREA 2020

July 1~3, KINTEX, Korea

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EDUCATION

Pohang University of Science and Technology	Ph.D	Chemistry	2013
Pohang University of Science and Technology	BS	Chemistry	2009

PROFESSIONAL ACTIVITIES

- Senior Researcher, LG Chem Research Park, Daejeon, South Korea (2013.07 ~ 2015.09)
- Senior Researcher, Korea Institute of Ceramic Engineering & Technology (2015.10 ~ Present).

MAIN SCIENTIFIC PUBLICATION

- Jong-Guk Ahn, **Jiwon Bang**[†], Jaehoon Jung, Yousoo Kim, Hyunseob Lim “ Scanning tunneling microscopic investigations for studying conformational change of underlying Cu(111) and Ni(111) during graphene growth” *Surface Science*, 2020, 693, 121526. († Equal contribution)
- Dae Soo Jung[†], **Jiwon Bang**[†], Tae Wan Park, Seung Hyup Lee, Yun Kyung Jung, Myunghwan Byun, Young-Rae Cho, Kwang Ho Kim, Gi Hun Seon and Woon Ik Park “Pattern Formation of Metal-Oxide Hybrid Nanostructures via the Self-Assembly of di-Block Copolymer Blends” *Nanoscale*, 2019, 11, 18559-18567. († Equal contribution)
- See Mak Lee, Hyunseop Lim, Younki Lee, and **Jiwon Bang*** “Facile In situ Synthesis of Ag-doped CdSe Supra-Quantum Dots and Their Characterization” *Chemphyschem*, 2019, 20, 1885– 1889.
- Mihye Lim, Gyuhyun Bang, Woo Jin Lee, Wonseok Lee, Youngrong Park, Yongju Kwon, Yebin Jung, Sungjee Kim*, and **Jiwon Bang*** “Synthesis of Far-red- and Near-infraredemitting Cu-doped InP/ZnS (Core/Shell) Quantum Dots with Controlled Doping Step and their Surface Functionalization for Bioconjugation” *Nanoscale*, 2019, 11, 10463-10471.
- Misung Kim, Weon Ho Shin, and **Jiwon Bang*** “Highly luminescent and stable green-emitting In (Zn, Ga) P/ZnSeS/ZnS small-core/thick-multishell quantum dots” *J. Lumin.*, 2019, 205, 555-559

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- Juwon Park, Sungjae Hwang, Sanghwa Jeong, Sungjee Kim, **Jiwon Bang**,* and Seungho Cho* “Heterojunction Area-Controlled Inorganic Nanocrystal Solar Cells Fabricated Using Supra-Quantum Dots” *ACS Appl. Mater. Interfaces*, **2018**, 10, 43768
- Bomi Kim, Kangwook Kim, Yongju Kwon, Woojin Lee, Weon Ho Shin, Sungjee Kim, and **Jiwon Bang***, “CuInS₂/CdS-Heterostructured Nanotetrapods by Seeded Growth and Their Photovoltaic Properties” *ACS Appl. Nano Mater.*, **2018**, 1, 2449–2454
- See Mak Lee, Hyunsung Jung, Woon Ik Park, Younki Lee, Eunhae Koo, and **Jiwon Bang*** “Preparation of Water-Soluble CsPbBr₃ Perovskite Quantum Dot Nanocomposites via Encapsulation into Amphiphilic Copolymers” *ChemistrySelect*, **2018**, 3, 11320-11325.
- See Mak Lee, Cheol Joo Moon, Hyunseob Lim, Younki Lee, Myong Yong Choi, and **Jiwon Bang***, “Temperature-Dependent Photoluminescence of Cesium Lead Halide Perovskite Quantum Dots : Splitting of the Photoluminescence Peaks of CsPbBr₃ and CsPb(Br/I)₃ Quantum Dots at Low Temperature” *J. Phys. Chem. C*, **2017**, 121, 26054-26062
- Juwon Park[†], Sanghwa Jeong[†], **Jiwon Bang**[†], Bomi Kim, Hynmi Doh, Seungho Cho, Sungjae Hwang, and Sungjee Kim, “Formation and Stepwise Self-Assembly of Cadmium Chalcogenide Nanocrystals to Colloidal Supra-Quantum dots and the Superlattices”. *Chem. Mater.* **2016**, 28, 5329-5335. († Equal contribution)