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Professional Experience

Mar. 2017 – Present **Assistant Professor**, Department of Physics
Konkuk University

Academic Training

Mar. 2014 – Feb. 2017 **Post-doctoral Fellow**, Department of Chemistry & Chemical Biology
Harvard University
Advisor: Prof. Charles M. Lieber

Sept. 2010 – Feb. 2014 **Ph. D.**, Department of Physics, Korea University
Advisor: Prof. Hong-Gyu Park

Sept. 2008 – Aug. 2010 **M. S.**, Department of Physics, Korea University
Advisor: Prof. Hong-Gyu Park

Mar. 2001 – Feb. 2008 **B. S.**, Department of Physics, Korea University
(Graduate with highest honors)

Honors and Fellowships

Mar. 2011 – Sept. 2013 **TJ Park Science Fellowship**, POSCO TJ Park Foundation

Sept. 2009 – Mar. 2010 **National Graduate Science & Technology Scholarships**,
Korea Science and Engineering Foundation

Apr. 2008 **Baek-Woon Fellowship** (Graduate with highest honors),
Department of physics, Korea University

Publications († equal contribution to the work)

21. Ruixuan Gao,† **You-Shin No**,† Max N. Mankin,† Robert W. Day, Charles S. Jackan, Thomas J. Kempa, Hong-Gyu Park and Charles M. Lieber*, “Controlled Synthesis of Tapered Core/Shell Nanowires for Localized Electrical and Optical Functions,” *in preparation*
20. Kyoung-Ho Kim, and **You-Shin No***, “Subwavelength core/shell cylindrical nanostructure for novel plasmonic and metamaterial devices,” *Submitted*
19. Jin Sik Choi, Kyoung-Ho Kim, and **You-Shin No***, “Spatially localized wavelength-selective absorption in morphology-modulated semiconductor nanowires,”
Opt. Express. **25**, 22750–22759 (2017).
18. **You-Shin No**, Lin Xu, Max N. Mankin, and Hong-Gyu Park*, “Shape-controlled assembly of nanowires for photonic elements,” *ACS Photon.* **3**, 2285–2290 (2016).
17. **You-Shin No**, Jae-Hyuck Choi, Kyoung-Ho Kim and Hong-Gyu Park*, “Characteristics of strain-sensitive photonic crystal cavities in a flexible substrate,”
Opt. Express. **24**, 26119–26128 (2016).
16. Kyoung-Ho Kim, Minsoo Hwang, Ha-Reem Kim, Jae-Hyuck Choi, **You-Shin No** and Hong-Gyu Park*, “Direct observation of exceptional points in coupled photonic-crystal lasers with asymmetric optical gains,” *Nature Commun.* **7**:13893/ncomms13893 (2016).
15. **You-Shin No**,† Ruixuan Gao,† Max N. Mankin, Robert W. Day, Hong-Gyu Park* and Charles M. Lieber*, “Encoding Active Device Elements at Nanowire Tips,”
Nano Lett. **16**, 4713–4719 (2016).
14. Jae-Hyuck Choi,† **You-Shin No**,† Jae-Pil So, Jung Min Lee, Kyoung-Ho Kim, Minsoo Hwang, Soon-Hong Kwon and Hong-Gyu Park*, “A high-resolution strain-gauge nanolaser,”
Nature Commun. **7**:11569 doi:10.1038/ncomms11569 (2016).
13. Yoon-Ho Kim, Soon-Hong Kwon, Ho-Seok Ee, Yongsop Hwang, **You-Shin No**, and Hong-Gyu Park*, “Dependence of Q Factor on Surface Roughness in a Plasmonic Cavity,”
J. Opt. Soc. Korea **20**, 188–191 (2016).

12. Kyoung-Ho Kim,[†] **You-Shin No**,[†] Sehwan Chang, Jae-Hyuck Choi and Hong-Gyu Park*, “Invisible Hyperbolic Metamaterial Nanotube at Visible Frequency,” *Sci. Rep.* **5**, 16027 (2015).
11. Max N. Mankin, Robert W. Day, Ruixuan Gao, **You-Shin No**, Sun-Kyung Kim, Arthur A. McClelland, David C. Bell, Hong-Gyu Park and Charles M. Lieber*, “Facet-Selective Epitaxy of Compound Semiconductors on Faceted Si Nanowires,” *Nano Lett.* **15**, 4776–4782 (2015).
10. Robert W. Day, Max N. Mankin, Ruixuan Gao, **You-Shin No**, Sun-Kyung Kim, David C. Bell, Hong-Gyu Park* and Charles M. Lieber*, “Plateau-Rayleigh crystal growth of periodic shells on one-dimensional substrates,” *Nature Nanotechnol.* **10**, 345–352 (2015).
9. Jung Min Lee, **You-Shin No**, Sungwoong Kim, Hong-Gyu Park*, and Won Il Park*, “Strong interactive growth behaviors in solution-phase synthesis of three-dimensional metal oxide nanostructures,” *Nature Commun.* **6**:6325 doi: 10.1038/ncomms7325 (2015).
8. Jae-Hyuck Choi, **You-Shin No**, Min-Soo Hwang, Soon-Yong Kwon, Kwang-Yong Jeong, Soon-Hong Kwon, Jin-Kyu Yang*, and Hong-Gyu Park*, “Low-threshold photonic-band-edge laser using iron-nail-shaped rod array,” *Appl. Phys. Lett.* **104**, 091120 (2014).
7. Soon-Hong Kwon, **You-Shin No**, and Hong-Gyu Park*, “Design of plasmonic cavities,” *Nano Convergence* **1**, 8 (2014).
6. Kwang-Yong Jeong, **You-Shin No**, Yongsup Hwang, Ki Soo Kim, Min-Kyo Seo, Hong-Gyu Park*, and Yong-Hee Lee*, “Electrically driven nanobeam laser,” *Nature Commun.* **4**:2822 doi: 10.1038/ncomms3822 (2013).
5. **You-Shin No**, Jae-Hyuck Choi, Min-Soo Hwang, and Hong-Gyu Park*, “Investigation of Light Coupling between a Semiconductor Nanowire and a Plasmonic Waveguide,” *J. Korean Phys. Soc.* **63**, 1851–1854 (2013).
4. **You-Shin No**, Jae-Hyuck Choi, Ho-Seok Ee, Min-Soo Hwang, Kwang-Yong Jeong, Eun-Khwang Lee, Min-Kyo Seo, Soon-Hong Kwon, and Hong-Gyu Park*, “A Double-Strip Plasmonic Waveguide Coupled to an Electrically Driven Nanowire LED,” *Nano Lett.* **13**, 772–776 (2013).
3. Ju-Hyung Kang, **You-Shin No**, Soon-Hong Kwon, and Hong-Gyu Park*, “Ultrasmall

subwavelength nanorod plasmonic cavity,” *Opt. Lett.* **36**, 2011–2013 (2011).

2. **You-Shin No**, Ho-Seok Ee, Soon-Hong Kwon*, Sun-Kyung Kim, Min-Kyo Seo, Ju-Hyung Kang, Yong-Hee Lee, and Hong-Gyu Park*, “Characteristics of dielectric-band modified single-cell photonic crystal lasers,” *Opt. Express* **17**, 1679–1690 (2009).
1. Min-Kyo Seo, Jin-Kyu Yang, Kwang-Yong Jeong, Hong-Gyu Park*, Fang Qian, Ho-Seok Ee, **You-Shin No**, and Yong-Hee Lee, “Modal Characteristics in a Single-Nanowire Cavity with a Triangular Cross Section,” *Nano Lett.* **8**, 4534–4538 (2008).

US Patent

1. Charles M. Lieber, Ruixuan Gao, Max N. Mankin, Robert W. Day, Hong-Gyu Park and **You-Shin No**, “Nanoscale wires with tip-localized junctions,”
US Patent Application 62/072,518 filed 30 October 2014.