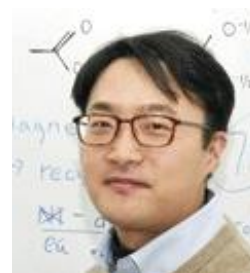


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CURRENT STATUS

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RESEARCH FIELDS

- MOVPE growth of III-V and II-VI-based nanomaterial and thin film heterostructures for optoelectronic device applications
- Novel epitaxy of semiconductor on graphene (van der Waals and remote epitaxy)
- Position-controlled selective growth of LEDs for fabricating nano-LED displays

EDUCATION

2004–2011: Ph. D., Materials Science and Engineering, POSTECH, Korea
1998–2004: B. S., Materials Science and Engineering, Korea University, Korea

PROFESSIONAL ACTIVITIES

2020–present: Vice Provost, Industry Academy Cooperation Foundation, Sejong University, Korea
2019–2020: Vice Executive Editor, Current Applied Physics, Elsevier
2012–present: Assistant/Associate Professor, Dept. Nanotechnology and Advanced Materials Engineering, Sejong University, Korea
2011–2012: Postdoctoral Research Associate at Research Center for Integrated Quantum Electronics, Hokkaido University, Japan & Japan Society for the Promotion of Science (JSPS) Postdoctoral Fellowship for Foreign Researchers

7 REPRESENTATIVE PUBLICATIONS

1. J. Jeong, Q. Wang, J. Cha, D. K. Jin, D. H. Shin, S. Kwon, B. K. Kang, J. H. Jang, W. S. Yang, Y. S. Choi, J. Yoo, J. K. Kim, C.-H. Lee, S. W. Lee, A. Zakhidov, S. Hong, M. J. Kim, and Y. J. Hong "Remote heteroepitaxy of GaN microrod heterostructures for deformable light-emitting diodes and wafer recycle" *Science Advances* 6, eaaz5180 (2020).
2. J. Jeong, K.-A. Min, D. H. Shin, W. S. Yang, S. W. Lee, J. Yoo, S. Hong, and Y. J. Hong "Remote homoepitaxy of ZnO microrods across graphene layers" *Nanoscale* 10, 22970 (2018).
3. Y. R. Park, H. Y. Jeong, Y. S. Seo, W. K. Choi, and Y. J. Hong "Quantum-Dot Light-Emitting Diodes with Nitrogen-Doped Carbon Nanodot Hole Transport and Electronic Energy Transfer Layer" *Scientific Reports* 7, 46422 (2017)
4. Y. J. Hong, C.-H. Lee, J. Yoo, Y.-J. Kim, J. Jeong, M. Kim, and G.-C. Yi* "Emission color-tuned light-emitting diode microarrays of nonpolar In_xGa_{1-x}N/GaN multishell nanotube heterostructures" *Scientific Reports* 5, 18020 (2015).
5. Y. J. Hong, J. W. Yang, W. H. Lee, R. S. Ruoff, and T. Fukui "Van der Waals Epitaxial Double Heterostructure: InAs/Single-Layer Graphene/InAs" *Advanced Materials* 25, 6847 (2013).
6. Y. J. Hong, W. H. Lee, Y. Wu, R. S. Ruoff, and T. Fukui "van der Waals epitaxy of InAs Nanowires Vertically Aligned on Single-Layer Graphene" *Nano Letters* 12, 1431 (2012).
7. Y. J. Hong, C.-H. Lee, A. Yoon, M. Kim, H.-K. Seong, H. J. Chung, C. Sone, Y. J. Park, and G.-C. Yi "Visible-color-tunable light-emitting diodes" *Advanced Materials* 23, 3284 (2011).