<라용호 이력서>



Jeonbuk National University, Republic of Korea



Research Activity

- Epitaxial growth/synthesis of Ill-nitride materials using MOCVD and MBE technique.
- Novel semiconductor nanowire/nanorod, quantum dot and thin film structures
- Nano-scale optoelectronic devices (LEDs, LDs, PDs etc) for micro/nano display, real 3D display, smart lighting, lamp applications.

Education

2014 Ph.D. Electronic Information Materials Engineering, Jeonbuk National University, Korea

2010 M.S. Electronic Information Materials Engineering, Jeonbuk National University, Korea
2008 B.S. Electronic Information Materials Engineering, Jeonbuk National University, Korea

Professional Experience

2021-present Associate Professor, Dept. of Advanced Materials Engineering, Jeonbuk National University, yhra@ibnu.ac.kr

2018 - 2021 Senior Researcher, Optic & Electronic Component Material Center, Korea Institute of Ceramic Engineering & Technology (KICET)

2014 - 2017 Postdoctoral Fellow, Dept. of Electrical & Computer Engineering, McGill university

Representative Publications (First-author)

- Yong-Ho Ra et al, Ultracompact display pixels: Tunnel junction nanowire photonic crystal laser, Nano Energy, 2021, Vol. 84, p105870.
- Yong-Ho Ra et al, Core-shell tunnel junction nanowire white light-emitting diode, Nano Letters, 2020, Vol. 20, p4162-4168.
- Yong-Ho Ra et al, An electrically pumped surface-emitting semiconductor green laser, Science Advances, 2020, Vol. 6, eaav7523.
- Yong-Ho Ra et al, Scalable Nanowire Photonic Crystals: Molding the Light Emission of InGaN, Advanced Functional Materials, 2017, Vol. 27, p1702364.
- Yong-Ho Ra et al, Full-color single nanowire pixels for projection displays, Nano Letters, 2016, Vol. 16, p4608-4615.
- Yong-Ho Ra et al, Single nanowire LED using uniaxial and coaxial InGaN/GaN MQWs synthesized by MOCVD, Nano Letters, 2014, Vol. 14, p1537-1545.
- Yong-Ho Ra et al, Coaxial InGaN/GaN MQW nanowire arrays on Si substrate for highperformance LEDs, Nano Letters, 2013, Vol. 13, p3506-3516.