2025년 2월 12일(수)-14일(금) | 강원도 하이원리조트

Future Normal in Semiconductor

2025-02-14(금), 15:10-17:10

좌장: 추후업데이트 예정

D. Thin Film Process Technology 분과

[FE3-D] TFT/Memory

Composition-Dependent Threshold Voltage Variation in GeSeTe-Based Selector-Only Memory Device 15:10-15:25 Young Yun Mun and Gun Hwan Kim Department of system semiconductor engineering, Yonsei University Exploring TiO2 Interlayer Impact on H _x Z _{1-x} O2 Ferroelectric Stability and Performance in Cryogenic Memory Applications So-Yeong Park, Woon-San Ko, Do-Yeon Lee, So-Yeon Kwon, Hye-Ri Hong, Seong-Jo Jo, and Ga-Won Lee Department of Electronics Engineering, Chungnam National University A New Structure for High-Performance Operation of Oxide and Organic Semiconductor Heterojunction Transistors: Spatially Separating Layer Sandwiched Anti-Ambipolar Transistor Youngmin Han¹ and Hocheon Yoo¹.² ¹Department of Semiconductor Engineering, Gachon University, ²Department of Electronic Engineering, Gachon University Study on the Enhancement of HfO₂ Dielectric Properties using SiCN Capping Layer Hye-Ri Hong, Woon-San Ko, Do-Yeon Lee, So-Yeon Kwon, So-Yeong Park, Seong-Jo Jo, and Ga-Won Lee Chungnam National University Determination of Subgap DOS over the Wide Energy Range using Multi-Wavelength Light in PEALD Cu₂O TFTs Soyeon Kim¹, Jaewook Yoo¹, Seongbin Lim¹, Hyeonjun Song¹, Hongseung Lee¹, Seohyeon Park¹, Minah Park¹, Sojin Jeong¹, Peide D. Ye², and Hagyoul Bae¹ ¹Jeonbuk National University,² Purdue University Multimode Operation of Light-Gated Transistors Based on Millimeter-Scale Transition-Metal Dichalcogenide Grown by Chemical Vapor		
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A New Structure for High-Performance Operation of Oxide and Organic Semiconductor Heterojunction Transistors: Spatially Separating Layer Sandwiched Anti-Ambipolar Transistor 15:40-15:55 15:40-15:55 Youngmin Han¹ and Hocheon Yoo¹.² ¹Department of Semiconductor Engineering, Gachon University, ²Department of Electronic Engineering, Gachon University Study on the Enhancement of HfO₂ Dielectric Properties using SiCN Capping Layer Hye-Ri Hong, Woon-San Ko, Do-Yeon Lee, So-Yeon Kwon, So-Yeong Park, Seong-Jo Jo, and Ga-Won Lee Chungnam National University Determination of Subgap DOS over the Wide Energy Range using Multi-Wavelength Light in PEALD Cu₂O TFTs Soyeon Kim¹, Jaewook Yoo¹, Seongbin Lim¹, Hyeonjun Song¹, Hongseung Lee¹, Seohyeon Park¹, Minah Park¹, Sojin Jeong¹, Peide D. Ye², and Hagyoul Bae¹ ¹Jeonbuk National University,² Purdue University Multimode Operation of Light-Gated Transistors Based on Millimeter-Scale Transition-Metal Dichalcogenide Grown by Chemical Vapor	15:25-15:40	Jo Jo, and Ga-Won Lee
Semiconductor Heterojunction Transistors: Spatially Separating Layer Sandwiched Anti-Ambipolar Transistor Youngmin Han¹ and Hocheon Yoo¹.² ¹Department of Semiconductor Engineering, Gachon University, ²Department of Electronic Engineering, Gachon University Study on the Enhancement of HfO₂ Dielectric Properties using SiCN Capping Layer Hye-Ri Hong, Woon-San Ko, Do-Yeon Lee, So-Yeon Kwon, So-Yeong Park, Seong-Jo Jo, and Ga-Won Lee Chungnam National University Determination of Subgap DOS over the Wide Energy Range using Multi-Wavelength Light in PEALD Cu₂O TFTs Soyeon Kim¹, Jaewook Yoo¹, Seongbin Lim¹, Hyeonjun Song¹, Hongseung Lee¹, Seohyeon Park¹, Minah Park¹, Sojin Jeong¹, Peide D. Ye², and Hagyoul Bae¹ ¹Jeonbuk National University? Purdue University Multimode Operation of Light-Gated Transistors Based on Millimeter-Scale, Transition-Metal, Dichalconepide, Grown, by Chemical, Vapor		Department of Electronics Engineering, Chungnam National University
FE3-D-3 15:40-15:55 Sandwiched Anti-Ambipolar Transistor Youngmin Han¹ and Hocheon Yoo¹.² ¹Department of Semiconductor Engineering, Gachon University, ²Department of Electronic Engineering, Gachon University Study on the Enhancement of HfO₂ Dielectric Properties using SiCN Capping Layer Hye-Ri Hong, Woon-San Ko, Do-Yeon Lee, So-Yeon Kwon, So-Yeong Park, Seong-Jo Jo, and Ga-Won Lee Chungnam National University Determination of Subgap DOS over the Wide Energy Range using Multi-Wavelength Light in PEALD Cu₂O TFTs Soyeon Kim¹, Jaewook Yoo¹, Seongbin Lim¹, Hyeonjun Song¹, Hongseung Lee¹, Seohyeon Park¹, Minah Park¹, Sojin Jeong¹, Peide D. Ye², and Hagyoul Bae¹ ¹Jeonbuk National University.² Purdue University Multimode Operation of Light-Gated Transistors Based on Millimeter-Scale, Transition-Metal, Dichalcogenide, Grown, by Chemical Vapor		A New Structure for High-Performance Operation of Oxide and Organic
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1 Department of Semiconductor Engineering, Gachon University, 2 Department of Electronic Engineering, Gachon University Study on the Enhancement of HfO ₂ Dielectric Properties using SiCN Capping Layer Hye-Ri Hong, Woon-San Ko, Do-Yeon Lee, So-Yeon Kwon, So-Yeong Park, Seong-Jo Jo, and Ga-Won Lee Chungnam National University Determination of Subgap DOS over the Wide Energy Range using Multi-Wavelength Light in PEALD Cu ₂ O TFTs Soyeon Kim ¹ , Jaewook Yoo ¹ , Seongbin Lim ¹ , Hyeonjun Song ¹ , Hongseung Lee ¹ , Seohyeon Park ¹ , Minah Park ¹ , Sojin Jeong ¹ , Peide D. Ye ² , and Hagyoul Bae ¹ 1 Jeonbuk National University, 2 Purdue University Multimode Operation of Light-Gated Transistors Based on Millimeter-Scale Transition-Metal Dichalcogenide Grown by Chemical Vapor	FE3-D-3	Sandwiched Anti-Ambipolar Transistor
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Study on the Enhancement of HfO ₂ Dielectric Properties using SiCN Capping Layer Hye-Ri Hong, Woon-San Ko, Do-Yeon Lee, So-Yeon Kwon, So-Yeong Park, Seong- Jo Jo, and Ga-Won Lee Chungnam National University Determination of Subgap DOS over the Wide Energy Range using Multi- Wavelength Light in PEALD Cu ₂ O TFTs Soyeon Kim ¹ , Jaewook Yoo ¹ , Seongbin Lim ¹ , Hyeonjun Song ¹ , Hongseung Lee ¹ , Seohyeon Park ¹ , Minah Park ¹ , Sojin Jeong ¹ , Peide D. Ye ² , and Hagyoul Bae ¹ Jeonbuk National University, Purdue University Multimode Operation of Light-Gated Transistors Based on Millimeter- Scale Transition-Metal Dichalcogenide Grown, by Chemical Vapor		¹ Department of Semiconductor Engineering, Gachon University, ² Department of
Capping Layer Hye-Ri Hong, Woon-San Ko, Do-Yeon Lee, So-Yeon Kwon, So-Yeong Park, Seong- Jo Jo, and Ga-Won Lee Chungnam National University Determination of Subgap DOS over the Wide Energy Range using Multi- Wavelength Light in PEALD Cu ₂ O TFTs Soyeon Kim ¹ , Jaewook Yoo ¹ , Seongbin Lim ¹ , Hyeonjun Song ¹ , Hongseung Lee ¹ , Seohyeon Park ¹ , Minah Park ¹ , Sojin Jeong ¹ , Peide D. Ye ² , and Hagyoul Bae ¹ Jeonbuk National University, Purdue University Multimode Operation of Light-Gated Transistors Based on Millimeter- Scale Transition-Metal Dichalcogenide Grown by Chemical Vapor		Electronic Engineering, Gachon University
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Jo Jo, and Ga-Won Lee Chungnam National University Determination of Subgap DOS over the Wide Energy Range using Multi- Wavelength Light in PEALD Cu ₂ O TFTs Soyeon Kim ¹ , Jaewook Yoo ¹ , Seongbin Lim ¹ , Hyeonjun Song ¹ , Hongseung Lee ¹ , Seohyeon Park ¹ , Minah Park ¹ , Sojin Jeong ¹ , Peide D. Ye ² , and Hagyoul Bae ¹ Jeonbuk National University, Purdue University Multimode Operation of Light-Gated Transistors Based on Millimeter- Scale Transition-Metal Dichalcogenide Grown by Chemical Vapor		Hye-Ri Hong, Woon-San Ko, Do-Yeon Lee, So-Yeon Kwon, So-Yeong Park, Seong-
Determination of Subgap DOS over the Wide Energy Range using Multi-Wavelength Light in PEALD Cu ₂ O TFTs Soyeon Kim ¹ , Jaewook Yoo ¹ , Seongbin Lim ¹ , Hyeonjun Song ¹ , Hongseung Lee ¹ , Seohyeon Park ¹ , Minah Park ¹ , Sojin Jeong ¹ , Peide D. Ye ² , and Hagyoul Bae ¹ Jeonbuk National University, Purdue University Multimode Operation of Light-Gated Transistors Based on Millimeter-Scale Transition-Metal Dichalcogenide Grown by Chemical Vapor	19:99-10:10	Jo Jo, and Ga-Won Lee
FE3-D-5 16:10-16:25 Wavelength Light in PEALD Cu ₂ O TFTs Soyeon Kim ¹ , Jaewook Yoo ¹ , Seongbin Lim ¹ , Hyeonjun Song ¹ , Hongseung Lee ¹ , Seohyeon Park ¹ , Minah Park ¹ , Sojin Jeong ¹ , Peide D. Ye ² , and Hagyoul Bae ¹ Jeonbuk National University, Purdue University Multimode Operation of Light-Gated Transistors Based on Millimeter- Scale Transition-Metal Dichalcogenide Grown by Chemical Vapor		Chungnam National University
Soyeon Kim ¹ , Jaewook Yoo ¹ , Seongbin Lim ¹ , Hyeonjun Song ¹ , Hongseung Lee ¹ , Seohyeon Park ¹ , Minah Park ¹ , Sojin Jeong ¹ , Peide D. Ye ² , and Hagyoul Bae ¹ Jeonbuk National University, Purdue University Multimode Operation of Light-Gated Transistors Based on Millimeter- Scale Transition-Metal Dichalcogenide Grown by Chemical Vapor		Determination of Subgap DOS over the Wide Energy Range using Multi-
Soyeon Kim ¹ , Jaewook Yoo ¹ , Seongbin Lim ¹ , Hyeonjun Song ¹ , Hongseung Lee ¹ , Seohyeon Park ¹ , Minah Park ¹ , Sojin Jeong ¹ , Peide D. Ye ² , and Hagyoul Bae ¹ Jeonbuk National University, Purdue University Multimode Operation of Light-Gated Transistors Based on Millimeter- Scale Transition-Metal Dichalcogenide Grown by Chemical Vapor		Wavelength Light in PEALD Cu₂O TFTs
Seohyeon Park', Minah Park', Sojin Jeong', Peide D. Ye², and Hagyoul Bae¹ ¹Jeonbuk National University,² Purdue University Multimode Operation of Light-Gated Transistors Based on Millimeter- Scale Transition-Metal Dichalcogenide Grown by Chemical Vapor		
Multimode Operation of Light-Gated Transistors Based on Millimeter-		Seohyeon Park ¹ , Minah Park ¹ , Sojin Jeong ¹ , Peide D. Ye ² , and Hagyoul Bae ¹
Scale Transition-Metal Dichalcogenide Grown by Chemical Vanor		¹ Jeonbuk National University, ² Purdue University
FE3-D-6 Scale Transition-Metal Dichalcogenide Grown by Chemical Vapor	FE3-D-6 16:25-16:40	Multimode Operation of Light-Gated Transistors Based on Millimeter-
		Scale Transition-Metal Dichalcogenide Grown by Chemical Vapor
Deposition		Deposition
Wonbeom Kim ¹ , Somnath S. Kundale ³ , Hyeongtae Kim ¹ , Su-Yeon Cho ¹ , Mi Ji Kwon ¹ ,		Wonbeom Kim ¹ , Somnath S. Kundale ³ , Hyeongtae Kim ¹ , Su-Yeon Cho ¹ , Mi Ji Kwon ¹ ,
Soobin Shim ¹ , and Jun Hong Park ^{1,2}		Soobin Shim ¹ , and Jun Hong Park ^{1,2}



2025년 2월 12일(수)-14일(금) | 강원도 하이원리조트

Future Normal in Semiconductor

	¹ Department of Materials Engineering and Convergence Technology, Gyeongsang
	National University, ² School of Materials Science and Engineering, Gyeongsang
	National University, ³ Research Institute for Green Energy Convergence Technology,
	Gyeongsang National University
	Defect-selective Platinum Nanoparticle Functionalization of 2D WS2 by
FE3-D-7 16:40-16:55	Atomic Layer Deposition for Enhancing Gas Sensing Properties
	Minji Kim, Inkyu Sohn, Dain Shin, Jaehyeok Kim, Tatsuya Nakazawa, Seung-min
	Chung and Hyungjun Kim
	School of Electrical and Electronic Engineering, Yonsei University
	High-Performance p-Type Tin Halide Perovskite Transistor with Non-
	Volatile Methylammonium Chloride
	Hansol Park ^{1,2} , Jongmin Lee ^{1,2} , Cheong Beom Lee ³ , Kyeounghak Kim ⁴ , and Hui Joon
FE3-D-8	Park ^{1,2,5}
16:55-17:10	¹ Department of Organic and Nano Engineering, Hanyang University, ² Human-Tech
	Convergence Program, Hanyang University, ³ Department of Chemistry, Hanyang
	University, ⁴ Department of Chemical Engineering, Hanyang University, ⁵ Department
	of Semiconductor Engineering, Hanyang University