**2018年中国科学院半导体研究所**

**五四青年学术交流会**

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| **序号** | **姓名** | **所在部门** | **poster题目** | **poster类别** |
| 1 | 季祥海 | 材料 | Self-seeded MOCVD growth and dramatically enhanced photoluminescence of InGaAs/InP core-shell nanowires | 材料科学类 |
| 2 | 张翔 | 照明中心 | Epitaxial growth of GaN on (-201) β-Ga2O3 substrate | 材料科学类 |
| 3 | 胡晓斌 | 纳米光电子实验室 | High Efficiency Optical Phase Control in Transmission Mode Based on Metallic Metasurface | 材料科学类 |
| 4 | 焦晓飞 | 纳米光电子实验室 | Multimode Interference in Plasmonic Metamaterials | 材料科学类 |
| 5 | 李喜林 | 照明中心 | Implementation of slow and smooth etching of GaN by inductively coupled plasma | 材料科学类 |
| 6 | 任宽宽 | 材料重点 | Electrochemical assisted growth of perovskite nanowires for wavelength-transformed plasmonic lasers | 材料科学类 |
| 7 | 王东博 | 材料重点 | Growth of InAsSb Quantum Dashes on InP(001)Substrate and Their Photoluminescence Properties | 材料科学类 |
| 8 | 王烨 | 材料重点实验室 | Interface Engineering of High-Performance Perovskite Photodetectors Based on PVP/SnO2 Electron Transport Layer | 材料科学类 |
| 9 | 吴清清 | 照明中心 | The van deer Waals epitaxy of AlN materials and Deep Ultraviolet Light-Emitting Diodes | 材料科学类 |
| 10 | 张均营 | 光电研发 | MnO2 Nanoflowers and Reduced Graphene Oxide 3D Composites for Ultrahigh-Energy-Density Supercapacitors | 材料科学类 |
| 11 | 储佳焰 | 材料科学重点实验室 | The effect of growth temperature in the middle stage of GaN epilayers grown on CPSS | 材料科学类 |
| 12 | 余凯 | 光电研发 | Fabrication of high-hole-mobility germanium-on-insulator wafers through an easy method | 材料科学类 |
| 13 | 周琳 | 光电研发 | Insight into the effect of ligand-exchange on colloidal CsPbBr3 perovskite quantum dot/mesoporous-TiO2 composite-based photodetectors: much faster electron injection | 材料科学类 |
| 14 | 马哲 | 集成中心 | Heavily Boron-Doped Silicon Layer for the Fabrication of Nanoscale Thermoelectric Devices | 材料科学类 |
| 15 | 张中恺 | 材料重点 | Ⅱ类InAs/ GaAs量子点结构MBE生长研究 | 材料科学类 |
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| 16 | 李乐 | 材料室 | Deep-ultraviolet photodetector based on high-quality single-crystalline CVD diamondDeep-ultraviolet photodetector based on high-quality single-crystalline CVD diamond | 材料科学类 |
| 17 | 杨超 | 照明中心 | Light Modulation and Water Splitting Enhancement Using a Composite Porous GaN Structure | 材料科学类 |
| 18 | 赵成城 | 材料科学重点实验室 | Midwave infrared InAs/GaSb strain layer superlattice avalanche photodiode | 材料科学类 |
| 19 | 郭芬 | 材料重点实验室 | In-situ surface treatment of GaN substrates for homoepitaxial Growth | 材料科学类 |
| 20 | 肖志雄 | 光电研发中心 | Nonlinear dynamics in circular-side hexagonal resonator microlasers | 光电子类 |
| 21 | 陈寅芳 | 光电研发中心 | Experiment of Filter Parameters’ Effect on HNLF Based All Optical Thresholding | 光电子类 |
| 22 | 丁芸芸 | 材料科学重点实验室 | Widely Tunable InAs/InP Quantum-Dot External-Cavity Laser with Bent-waveguide Structure | 光电子类 |
| 23 | 冯圣文 | 光电系统实验室 | Sub-meter spatial resolution Phi-OTDR system using double interferometers | 光电子类 |
| 24 | 黄建芬 | 光电系统实验室 | Multiple disturbance detection and intrusion recognition in distributed acoustic sensing | 光电子类 |
| 25 | 黄庆超 | 固态光电信息技术实验室 | A novel optical frequency-hopping scheme based on phase modulator-embedded optical loop mirror | 光电子类 |
| 26 | 贾浩 | 光电研发中心 | 2×2 multimode optical switch for large-capacity on-chip optical interconnect | 光电子类 |
| 27 | 李超懿 | 光电研发 | Multi-wavelength Receiver Optical Sub-Assembly Based on Silica Hybrid Integration Technology for Data Center Interconnection | 光电子类 |
| 28 | 李彤 | 纳米光电子实验室 | Realization of -90°~90° continuous polarization rotation with high efficiency broadband transmission based on periodically arranged L-shaped particles | 光电子类 |
| 29 | 廖明龙 | 光电研发 | Tunable Optoelectronic Oscillator Using aDirectly Modulated Microsquare Laser | 光电子类 |
| 30 | 刘翠翠 | 工程中心 | Design of 915nm/974nm single-emitter laser diode fiber-coupled module | 光电子类 |
| 31 | 马瑞 | 光电系统实验室 | A DFB fiber laser sensor for simultaneous measurement of acoustic and magnetic field | 光电子类 |
| 32 | 邵斯竹 | 光电子研发中心 | Low-voltage Silicon Optical Modulator with a Single-drive Parallelpush-pull Scheme | 光电子类 |
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| 33 | 孙浩 | 光电研发 | Reconfigurable microwave signal processor with a phase shift of π | 光电子类 |
| 34 | 王皓岩 | 光电 | Microwave photonic filter based onmultistage high-order microring resonators | 光电子类 |
| 35 | 薛小帝 | 材料重点 | Electrical detection of photoinduced spins at zero magnetic field | 光电子类 |
| 36 | 杨于清 | 光电系统实验室 | Triangular-range-intensity profile spatialcorrelation method for 3D super-resolution range-gated imaging | 光电子类 |
| 37 | 袁配 | 光电研发 | Design and Fabrication of Two Kind of SOI-Based EA-type VOAs | 光电子类 |
| 38 | 张志珂 | 光电子研发中心 | First Demonstration of 112 Gb/s PAM-4 Amplifier-free Transmission over a Record Reach of 40 km Using 1.3 μm Directly Modulated Laser | 光电子类 |
| 39 | 赵泽平 | 光电研发中心 | 200 Gb/s FSO WDM communication system empowered by multi-wavelength directly modulated TOSAempowered by multi-wavelength directlymodulated TOSA | 光电子类 |
| 40 | 郑凌晨 | 光电研发 | Silicon PAM-4 optical modulator driven by two binary electrical signals with different peak-to-peak voltages | 光电子类 |
| 41 | 周挺 | 光电研发中心 | Method to optimize optical switch topology for photonic network-on-chip | 光电子类 |
| 42 | 朱馨怡 | 光电研发 | Dispersion-free wavelength-to-time mapping method for optical arbitrary waveform generation | 光电子类 |
| 43 | 曹思宇 | 光电研发 | InGaAs/InP Single-Photon Avalanche Diode with High Single-Photon detection efficiency | 光电子类 |
| 44 | 郝腾飞 | 光电研发 | Breaking the Limitation of Mode Building Time in an Optoelectronic Oscillator | 光电子类 |
| 45 | 郝友增 | 光电研发中心 | Widely Tunable Single-mode Hybrid Rhombus-Rectangular Lasers | 光电子类 |
| 46 | 钱利滨 | 光电系统实验室 | Research on methane gas sensor based on NDIR | 光电子类 |
| 47 | 杨杰 | 照明中心 | Design and simulation visible light communication illumination system based on LD light source | 光电子类 |
| 48 | 张一鸣 | 光电研发 | Equivalent circuit model of VCSEL | 光电子类 |
| 49 | 朱厦 | 光电研发 | Simultaneous frequency up-conversion and phase coding of a radio-frequency signal for photonic radars | 光电子类 |
| 50 | 韩浚源 | 光电研发 | A widely tunable optoelectronic oscillator based on directly modulated integrated twin-microdisk lasers | 光电子类 |
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| 51 | 范志远 | 光电研发 | Light-pump Terahertz Modulator Based on WS2 | 光电子类 |
| 52 | 吴冀亮 | 光电研发中心 | Noise Performance of gain switched semiconductor laser under injection-locking | 光电子类 |
| 53 | 杨帆 | 光电研发 | Multilayer Graphene-GeSn quantum well heterostructure light source | 光电子类 |
| 54 | 张永恒 | 光电研发中心 | Mode and lasing characteristics of square-racetrack lasers for single mode operation | 光电子类 |
| 55 | 常丽敏 | 光电研发中心 | Polarization independent directional coupler and polarization beam splitter based on asymmetric cross slot waveguides | 光电子类 |
| 56 | 孟令刚 | 光电系统 | Realizing underwater turbulent flow detection based on shadow method | 光电子类 |
| 57 | 颜跃武 | 光电研发中心 | Design and Optimization of Optical Phased Array Based on Silica-on-Silicon | 光电子类 |
| 58 | 王福丽 | 光电研发 | Relative Intensity Noise in High-Speed Hybrid Square-rectangular lasers | 光电子学 |
| 59 | 高慧 | 光电研发中心 | Stand-off Detection of Ethanol Vapors Based on a Tunable ICL Laser | 光电子类 |
| 60 | 吕晓庆 | 光电研发 | An integrated method for cell isolation and migration on a chip | 微电子类 |
| 61 | 苏言 | 集成中心 | PSPICE Hybrid Modeling and Simulation of Capacitive Micro-Gyroscopes | 微电子类 |
| 62 | 苏玥 | 光电研发 | Membrane microfilter device for hight-throughput capture of human circulating tumor cells. | 微电子类 |
| 63 | 童鑫 | 集成中心 | Adaptive EKF Based on HMM Recognizer for Attitude Estimation Using MEMS MARG Sensors | 微电子类 |
| 64 | 王琦 | 照明中心 | Monolithic semipolar InGaN/GaN white light-emitting diodes on micro-stripe Si(100) substrate | 微电子类 |
| 65 | 王思凯 | 光电研发 | A new physiological signal acquisition patch designed with advanced respiration monitoring algorithm based on 3-axis accelerator and gyroscope | 微电子类 |
| 66 | 杨健 | 集成中心 | Design and Simulation of A Novel Piezoelectric AlN-Si Cantilever Gyroscope | 微电子类 |
| 67 | 杨帅 | 照明研发中心 | 蓝宝石上AlN薄膜声表面波滤波器性能提升研究 | 微电子类 |
| 68 | 张博文 | 集成中心 | An effective method for antenna design in field effect transistor terahertz detectors | 微电子类 |
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| 69 | 闫寒冰 | 光电研发中心 | Methods to improve the input impedance of EEG amplifier | 微电子类 |
| 70 | 沈文弢 | 光电子研发中心 | FPGA Realization of Image Recognition Based on EEG Signal P300 | 微电子类 |
| 71 | 王立晶 | 固态光电信息实验室 | Research and Design of Pulse Laser Drivers for Semiconductor Lasers | 微电子类 |
| 72 | 陈亚男 | 材料重点实验室 | Research on near-band-edge emission properties and mechanism of high-quality single-crystal diamond | 物理学类 |
| 73 | 黎姗 | 超晶格国家重点实验室 | Current-induced Spin-Orbit Torque Magenatizaton Switching in PtMn/MnGa System | 物理学类 |
| 74 | 尚雅轩 | 超晶格室 | 基于实时傅里叶变换采集卡的自旋噪声谱测量 | 物理学类 |
| 75 | 童树成 | 超晶格 | Large magnetoresistance in low-dimensional high-quality InSb nanostructures | 物理学类 |
| 76 | 杨恺恒 | 光电系统实验室 | Interaction of helically wound fibre-optic cables with plane seismic waves | 物理学类 |
| 77 | 岳世忠 | 材料重点室 | Efficacious engineering on charge extraction for realizing highly efficient perovskite solar cells | 物理学类 |
| 78 | 张洋 | 材料重点 | Spin photocurrent mapping of Multilayer ReS2 | 物理学类 |
| 79 | 李秀丽 | 光电研发中心 | Formation and characterization of Ni/ n+-Si Ohmic contact | 物理学类 |
| 80 | 赵晨 | 纳米光电实验室 | A method for realizing high enhancement factor using Fano resonance and gold reflective layer | 物理学类 |