

序号	报告主题	主讲人
<b>5.21 -5.25 第一届中德功能纳米材料科学学术会议</b>		
1	Two-Dimensional Layered Materials for Nanoelectronics - Interconnect and Transistor	Yang Chai
2	Plasmonics with 2D materials	Peter Klar
3	Two-Dimensional Metal Chalcogenide Semiconductors: Design, Synthesis and Applications	He Jun
4	Controllable Synthesis of Two-Dimensional Materials	Xu Mingsheng
5	From 2D honeycomb elemental layer to puckered elemental layer	Lu Yunhao
6	Perovskite optoelectronic devices	Ulrich Lemmer
7	The collective spin excitation and dynamics study of semiconductor-based spintronic materials	Zhang Xinhui
8	Tuning effects of surface plasmon in metallic nanoheterostructures	Cai Chunfeng
9	Bright-exciton fine-structure splittings in single perovskite nanocrystals	Wang Xiaoyong
10	Exciton Recombination in solution-processed Low-Dimensional Lead Halide Perovskites	He Haiping
11	Fabricating High-Efficient Blade-Coated Perovskite Solar Cells under Ambient Condition Using Lead Acetate	Kong Weiguang
12	1D and 2D Materials, Flexible Electrodes and Tunable Surfaces	Eui-Hyeok Yang
13	Tunable nonlinear optical response from 2D materials	Wu Shiwei
14	Interlayer excitons in TMDC homo- and hetero-multilayers	Tineke Stroucken
15	Time-resolved Photoelectron Spectroscopy of Surface and Interface Electronic States	Ulrich Höfer
16	Plasmonic Hot Electrons Doping of 2D Materials	Fang Zheyu
17	Nanoscale chemical engineering of atomic layered deposited vanadium oxides	Chen Xin
18	Functional nanostructures and spacer layers for photonics and photoelectronics	Dai Ning
19	Silicon nanomaterials for optoelectronic and spintronic applications	Luo Junwei
20	Silicon nanocrystals for optoelectronic devices	Pi Xiaodong
21	Searching for Wider Gap Topological Insulator and Enhancing Charge-to-Spin Conversion	Yuan Ping Feng
22	Topological Nature of PbTe Crystal and Interface of CdTe/PbTe Heterostructure	Wu Huizhen
23	Designing of Weyl semimetal via semiconductor heterostructure fabrication	Guo Chunyu
24	Ultrafast Charge Transfer in 2D Semiconductors and Heterostructures	Qihua Xiong
25	Optoelectronic and energy materials	Hai Wang
26	Ultrafast Nonlinear Optical effects in Black Phosphorus	He Jun
27	Carbon nano-materials for terahertz detectors and sensors	Hartmut Roskos
28	Material investigation with THz spectroscopy	Martin Koch
29	Molecular Nanostructures: fabrication of structurally well-defined molecular films and their optoelectronic properties	Gregor Witte
30	The influence of the environment on optical properties of 2D semiconductors	Arash Rahimi-Iman

31	Tuning the emission of CdS quantum dots with silver particles	Hu Lian
32	Non-classical light emission from quantum-dot-microlenses	Stephan Reitzenstein
33	Quantum dots for photonic quantum technologies	Peter Michler
34	High-purity, Electrically-driven, and Room-temperature Single-photon Sources	Fang Wei
35	InAs quantum dot lasers grown on Ge substrates by gas source molecular beam epitaxy	Gong Qian
36	Semiconductor Nanowire Photonic Devices	Tong Limin
37	Nanostructured Semiconductors and Their Applications in Classical and Quantum Communication at 1.5 $\mu$ m	Johann Peter Reithmaier
38	Towards high power terahertz quantum cascade lasers	Xu Gangyi
39	Towards High-performance solution-processed Light-emitting Diodes based on Quantum Dots	Jin Yizheng
40	Oxide-based Neuromorphic Transistors for Neuromorphic Computation	Wan Qing
41	High Performance Graphene/Silicon Photodetectors and Image Sensors	Xu Yang
42	The development of Blocked Impurity Band terahertz photodetectors	Zhu He
<b>5.23-5.25 量子计算与量子光学国际论坛</b>		
43	BLACK HOLE ENTROPY:from a quantum optical perspective	Marlan O. Scully
44	Discrete scale invariance and Log-B periodic quantum oscillation in topological semimetals	XinchengXie
45	Factorization of numbers, Schrödinger cats and the Riemann hypothesis	Wolfgang Schleich
46	Observations of momentum-space polarization vortices in plasmonic crystals	Jian Zi
47	Strange weak values of photon number operators in the opto-mechanical interaction	Miguel Orszag
48	Power, Sex, Suicide and Quantum Optics	Vladislav V. Yakovlev
49	Decay of quantum systems analysed with pseudomodes of reservoir structures	Barry Garraway
50	Integrating Cavities and Ring-Down Spectroscopy	Ed Fry
51	Quantum dynamics phase transition in sequential weak measurement and Hz-resolution NMR of a single nuclear spin	Renbao Liu
52	Structured illumination microscopy via surface plasmons	SuhailZubairy
53	Experimental Realization of One-Dimensional Superradiance Lattices in Ultracold Atoms	Jing Zhang
54	Quantum dots made from semiconductor nanostructures for quantum information processing	Hongqi Xu
55	Magnetic resonance with quantum microwaves	Patrice Bertet
56	Topological photonics in the synthetic space with dynamically-modulated ring resonators	Luqi Yuan
57	Quantum Duality Under Control	Joseph H. Eberly
58	Evidence of Majorana zero modes in Josephson devices constructed on Bi <sub>2</sub> Te <sub>3</sub> surface	Li Lu
59	Selective Creation and Coherent Control of Cavity Polaritons	Girish Agarwal
60	Synthesis of anti-symmetric spin exchange interaction in a superconducting circuit	Dawei Wang
61	Quantum Experiments at Space Scale	Cheng-zhi Peng
62	Hole Spin Qubits in Ge and Si nanowires	Daniel Loss

63	Fast Quantum Control of Semiconductor Qubits	Ming Xiao
64	Topological lattices using multi-frequency radiation	GediminasJuzeliūnas
65	Quantum optomechanics with a quantum fluid	Warwick Bowen
66	Quantum Coherence of Spin Qubits with Limited Coupling to the Environment	Seigo Tarucha
67	Entanglement Sharing in Qubit Systems	Xiaofeng Qian
68	Quantum supremacy: checking a quantum computer with a classical supercomputer	John Martinis
69	Parity-Time-Symmetric Optics, extraordinary momentum and spin in evanescent waves, and the quantum spin Hall effect of light	Franco Nori
70	Quantum Control of Spins in Solids	Xing Rong
71	Quantum optics phenomena in superconducting quantum circuits with broken symmetry of potential energy	Yuxi Liu
72	Quantum error mitigation and an imaginary time algorithm for many-body problems	Simon Benjamin
73	Nonlinear effect in a cavity magnonics system	Jianqiang You
74	Microwave squeezing in transients	Alexander N. Korotkov
75	Multi-photon quantum boson sampling on a semiconductor	Chaoyang Lu
76	Multiplexed Qubit Readout, Single Photon Detection, and Tunable Couplers in Superconducting Circuits	Christopher Eichler
77	Progress on superconducting multi-qubits system	Xiaobo Zhu
78	Multi-qubit entanglement with superconducting quantum circuits	Haohua Wang
<b>5.24 登攀节开幕式</b>		
79	大漠孤烟胡杨志 铁马长河邦国心	贺贤土
<b>5.25 理学大师论坛</b>		
80	等离激元光子学和纳米光学：超灵敏传感和纳米光波导研究	徐红星
<b>5.26-5.27 浙大物理学系首届学术年会</b>		
81	Self-energy shift and energy band theory for warm dense matter	贺贤土
82	“墨子号”的科学任务与空间光电技术的进步	王建宇
83	微纳加工新技术	仇旻
84	暗物质	郁海波
85	Field Effect Control of Quantum Phases Using Ionic Gating	叶剑挺
86	爱里斑的反常变化及其对衍射法粒度测量的影响	张福根
87	A New Approach for the Modeling of Complex Quantum Systems	袁声军
88	Bottom-up Assembly of Microbial Communities: Modeling, Analysis and Engineering	卢挺
89	大型质子电子对撞机物理	王凯
90	空间微分器——亚波长厚度全光模拟运算	阮智超
91	新型稀磁半导体的探索和制备	宁凡龙
92	Manipulating and probing topological properties of cold atomic matter	林励庆

93	对 YbPtBi 和 CeBi 中拓扑关联电子态的 ARPES 研究	刘洋
94	Chiral Quantum Optics	王大伟
95	Defects physics in emergent 2D material SnSe with binary black phosphorus lattice	郑毅
96	微扰量子色动力学进展	朱华星
97	激光冷却分子实验研究进展	颜波
98	球状闪电研究	武慧春
99	开放量子力学：动力学和调控	景俊
100	复杂氧化物界面电子气与界面超导	谢燕武
101	生物分子力学稳定性的计算模拟研究	李敬源
<b>Poster presentations</b>		
1	Tailoring the Optical Properties of Conjugated Polymer Nanoparticles	Ali, Nasir
2	All-Two-Dimensional-Material Hot Electron Transistor	Guo, Hongwei
3	Tunable photoluminescence in van der Waals heterojunction built from MoS <sub>2</sub> monolayer and PTCDA organic semiconductor	Habib, Mohammad R.
4	Irreversible electrical and magnetic properties induced by excess oxygen in correlated oxides	Huang, Tiantian
5	The influence of hBN on the pump-dependent time-evolution of monolayer photoluminescence in WSe <sub>2</sub>	Kuhnert, Jan
6	Enhanced Terahertz Radiation Generation of Photoconductive Antennas Based on Manganese Ferrite Nanoparticles	Lai, Weien
7	Electrically-driven High-purity Single-photon Sources	Lin, Xing
8	Light-induced negative differential resistance in gate-controlled graphene-silicon photodiode	Liu, Wei
9	Hybrid Structure of 2D Layered GaTe with Au Nanoparticles for Ultrasensitive Detection of Aromatic Molecules	Lu, Pengqi
10	Designing Monolayer WS <sub>2</sub> Photoluminescence Enhancement	Mey, Oliver
11	Resolving the Controversial Existence of Silicene and Germanene Nanosheets Grown on Graphite	Peng, Weibing
12	Exciton Dynamics in WSe <sub>2</sub> Monolayers for Different Stacking Schemes involving hBN	Schneider, Lorenz Maximilian
13	Young's double-slit experiment based on room-temperature single-photon source	Shao, Luqing
14	Improvement of thermoelectric properties for PbTe and SnSe based materials by introducing 2D microstructure	Si, Jianxiao
15	Designs for tunable light-matter coupling in planar microcavities	Wall, Franziska
16	Interfacial Multiferroics of TiO <sub>2</sub> /PbTiO <sub>3</sub> Heterostructure Driven by Ferroelectric Polarization Discontinuity	Wang, Fang
17	Two-dimensional ferroelectricity and switchable spin-textures in ultra-thin elemental Te multilayers	Wang, Yao
18	CdTe microwires as mid-infrared optical waveguides	Xin, Chenguang
19	Wavelength Tunable CdS Nanowire Lasers	Xu, Peizhen
20	CMOS-compatible direct bandgap light-emitting germanium by design	Yuan, Linding
21	Light-emitting Diodes Based on Silicon Quantum Dots	Zhao, Shuangyi
22	Design and Fabrication of Plasmonic Tuned THz Detectors by Periodical Hole Structures	Zhu, Jiaqi