



International Workshop on

Advanced Patterning Solutions

The 8th International Workshop on Advanced Patterning Solutions

第八届国际先进光刻技术研讨会

October 15-16, 2024, Nanhu Hotel, Jiaxing, Zhejiang Province, China

2024年10月15日至16日, 南湖宾馆嘉禾厅, 浙江嘉兴, 中国

(October 14 for registration, 10月14日注册)

Agenda 会议日程

Program Chairs: Danping Peng, Toru Fujimori, Wenzhan Zhou

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| Registration 注册 | |
| 14 Oct. 2024 | 10:30-20:00 @酒店大厅&嘉禾厅 |
| 15-16 Oct. 2024 | 08:00-17:00 @嘉禾厅 JIAHE Grand Ballroom |
| DAY 1: | |
| 15 Oct. 2024 (Tuesday) | |
| JIAHE Grand Ballroom 嘉禾厅 | |
| DAY 1-Morning | |
| 08:30-09:00 | Opening Ceremony & Welcome Address Chair: Yayi Wei(韦亚一) |
| Welcome Address | Conference Chairs: Jianlin Cao (曹健林) Tianchun Ye (叶甜春) Representative of Host/Organizer: Bo Gu (顾波) Ling Li (李泠) Program Chairs: Toru Fujimori Wenzhan Zhou (周文湛) |
| 09:00-10:10 | Plenary Session I Chair: Wenzhan Zhou |
| | <i>5 minutes Q&A for each talk</i> |
| 09:00-09:35 | Junjiang Lei (Seimens EDA): (KEYNOTE) Inverse Lithography Technology as State-of-Art Mask Synthesis Technology and Its Applications in High Volume IC Chip Production |
| 09:35-10:10 | Toru Fujimori (Fujifilm): (KEYNOTE) Advanced photoresist development for stochastic |

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| 10:10-10:40 | Group Photo & Coffee Break |
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| 10:40-12:10 | Advanced Photoresist Session Chair: Toru Fujimori & Bing Li 李冰 |
| | <i>5 minutes Q&A for each talk</i> |
| 10:40-11:05 | Guoqiang Yang (ICCAS): (INVITED) The Research and Development of Ultra-High-Resolution Resists |
| 11:05-11:30 | Feng Luo (Nankai University): (INVITED) EUV Photoresist for Advanced 0.55NA Lithography |
| 11:30-11:50 | Feng Xu (Pibond): Resist and underlayers - recent developments in material, patterning and pattern transfer processes |
| 11:50-12:10 | Chunxiao Mu (HUST): Wiener-Padé Model for Lithographic Resist Modeling |
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| 12:10-13:40 | Lunch |
| DAY 1-Afternoon | |
| 13:40-15:30 | Plenary and Metrology Session II Chair: Guoqiang Yang 杨国强 & Shiyuan Liu 刘世元 |
| | <i>5 minutes Q&A for each talk</i> |
| 13:40-14:15 | Hong Xiao (ASML): (KEYNOTE) SEM signal enhancement of buried patterns and buried defects |
| 14:15-14:40 | Yong Wang (Shanghai Advanced Research Institute): (INVITED) EUV actinic reticle inspection beamline at Shanghai Synchrotron Radiation Facility |
| 14:40-15:05 | Xiaosong Liu (USTC): (INVITED) Hefei Light Source - the Low Energy Synchrotron Facility for EUV-Lithography Research |
| 15:05-15:30 | ByoungHo Lee (Hitachi High-tech): (INVITED) MI's new challenges and approaches |
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| 15:30-15:50 | Coffee Break |
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| 15:50-17:30 | Advanced Computational Lithography Session Chair: Yaobin Feng 冯耀斌 & Weimin Gao 高伟民 |
| | <i>5 minutes Q&A for each talk</i> |
| 15:50-16:15 | Qiang Wu (Fudan University): (INVITED) A SMO Software Designed for Today and Tomorrow's |

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| | High-end Integrated Circuit Manufacturing Processes |
| 16:15-16:40 | Jiang Yan (NICIC): (INVITED) Thoughts Given to Optical Proximity Correction (OPC) |
| 16:40-17:05 | Xu Ma (BIT): (INVITED) Advanced Computational Lithography based on Information Theory |
| 17:05-17:30 | Kan Zhou (Shanghai Huali): (INVITED) Silicon Process Characterization Based on Massive SEM Contour Extraction and Hotspot Pattern Decomposition |
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| 17:30-18:30 | Poster Session Authors should be present at your poster. |
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| 18:30-20:30 | Welcome Banquet for all attendees 晚宴 (JIAHE Grand Ballroom 嘉禾厅) |

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| Day 2: | |
| 16 Oct. 2024 (Wednesday) — Parallel Session I, 并行报告会场 I | |
| JIAHE Grand Ballroom Part A, 嘉禾厅 A | |
| DAY 2-Morning | |
| 08:30-10:20 | Equipment Session Chair: Jing Li 李璟 & Yun Zhan 詹云 |
| | <i>5 minutes Q&A for each talk</i> |
| 08:30-08:55 | Billy Tang (ASML-Cymer): (INVITED) Sustainability & Availability Improvements from Light Source Technology Enhancements |
| 08:55-09:20 | Yang Liu (Harbin Institute of Technology): (INVITED) Intelligent ultra-precision motion control technology for lithography equipment |
| 09:20-09:40 | Zhen MA (EDWARDS): Lithography Vacuum and exhaust gas management for EUV high NA |
| 09:40-10:00 | Jibin Leng (Hangzhou Cobetter Filtration Equipment Co., Ltd.): New Polyethylene Filter Development for Next Generation Lithography |
| 10:00-10:20 | Sebastian Vollmar (Carl Zeiss SMT GmbH): MeRiT® MG neo - a new Photomask repair solution for the mature market |
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| 10:20-10:40 | Coffee Break |
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| 10:40-12:10 | Mask Session Chair: Lifeng Duan 段立峰 |
| | <i>5 minutes Q&A for each talk</i> |
| 10:40-11:10 | Hong Chen (Shenzhen GWX Technology Co.): |

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| | (INVITED) Significance Investigation on Thickness Effects of Mask on 28nm Node and Below |
| 11:10-11:30 | Dejian Li (Uni Semiconductor Corp): (INVITED) Evaluation of Lithography Printability Review in Mature Node Photomask Manufacturing |
| 11:30-11:50 | Shuying Deng (Sun Yat-sen University): Development of a synchrotron-based EUV microscope for actinic mask inspection |
| 11:50-12:10 | Fu Li (Beijing Superstring Academy of Memory Technology): Optimizing Mask Manufacturability and Image Quality: Exploring Variable Fracture Sizes in Inverse Lithography |
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| 12:10-14:00 | Lunch |
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| DAY 2-Afternoon | |
| 14:00-15:30 | Metrology and Inspection Session Chair: Jiangliu Shi 师江柳 |
| | <i>5 minutes Q&A for each talk</i> |
| 14:00-14:25 | Youngsu Kim (KLA): (INVITED) Broadband Optical Wafer Inspection for Process Control: Industry challenges and Technology inflections |
| 14:25-14:50 | Yuanliu Chen (Zhejiang Univ.): (INVITED) In-process measurement and control for ultraprecision cutting |
| 14:50-15:10 | Qiuping Nie (Yuwei Semi. Tech.): Method for Improving Overlay Accuracy |
| 15:10-15:30 | Qimeng Sun (the Fifth Electronic Research Institute of MIIT): Non-destructive measurement of temperature in the micro-area wafer using Mueller matrix spectroscopic ellipsometry |
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| 15:30-15:50 | Coffee Break |
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| 15:50-16:55 | Other Lithography and Process Session Chair: Shisheng Xiong 熊诗圣 |
| | <i>5 minutes Q&A for each talk</i> |
| 15:50-16:15 | Jie Liu (Hunan Univ.): (INVITED) A Hybrid Proximity Effect Correction Method based on Separation of Forward-/Back-Scattering and Cumulative Distribution Function |
| 16:15-16:35 | Jianguang Xian (JiTong Technology Guang Zhou Co.): Extended Theoretical Review of a new approach of Lithography at nm Resolution |
| 16:35-16:55 | Bo Feng (Hunan University): All-dry wafer thinning and Ru-filled nanoTSV-Middle processing for |

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| | Backside Power Distribution |
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| 16:55-17:00 | Closing Plenary Address 闭幕致辞 Chair: Wenzhan Zhou, Yayi Wei |

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| Day 2: | |
| 16 Oct. 2024 (Wednesday) — Parallel Session II, 并行报告会场 II | |
| JIAHE Grand Ballroom Part B, 嘉禾厅 B | |
| DAY 2-Morning | |
| 08:30-10:20 | Computational Lithography Session Chair: Qiang Wu 伍强 & Sikun Li 李思坤 |
| | <i>5 minutes Q&A for each talk</i> |
| 08:30-08:55 | Yijiang Shen (GUST): (INVITED) Inverse lithography with adaptive threshold regularization |
| 08:55-09:20 | Qi Wang (Fudan Univ.): (INVITED) Source-Mask Co-Optimization Study for Typical EUV Design Rule Patterns with 40 nm Minimum Pitch |
| 09:20-09:40 | Miao Yuan (BIT): Zernike polynomial based pupil wavefront optimization technology for extreme ultraviolet lithography |
| 09:40-10:00 | Pinxuan He (HUST): Linearized EUV mask optimization based on the adjoint method |
| 10:00-10:20 | Ying Li (Fudan Univ.): Source-Mask Co-Optimization Study for 7 nm Metal Layer Patterns with 80 nm Minimum Pitch |
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| 10:20-10:40 | Coffee Break |
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| 10:40-12:10 | AI Driven Lithography Session Chair: Xu Ma 马旭 & Yijiang Shen 沈逸江 |
| | <i>5 minutes Q&A for each talk</i> |
| 10:40-11:05 | Shengrui Zhang (DJEL): (INVITED) PanGen DMC: AI powered solution for fast design manufacturability check |
| 11:05-11:30 | Haizhou Yin (Siemens EDA): (INVITED) Monotonic Machine Learning for Retargeting Layer Generation by Leveraging Contour-Based Metrology |
| 11:30-11:50 | Ying-chen Wu (ASML Brion): GAOPC Improves OPC Parameter Search Efficiency and Convergence Speed |
| 11:50-12:10 | Haibin Yu (Huali): SONR based gauge down sampling for OPC model calibration |
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| 12:10-14:00 | Lunch |
| DAY 2-Afternoon | |
| 14:00-15:25 | Design and Process Session Chair: Xiaodong Meng 孟晓东 & Jacky Cheng |
| | <i>5 minutes Q&A for each talk</i> |
| 14:00-14:25 | Cai Chen (AMEGADAC): (INVITED) The Application of Multiple Patterning Solutions Based on Process Window Analysis in Lithography |
| 14:25-14:45 | Chang XU (JHICC): From 1D-Spot to 2D-Plain: A Computer Vision Based Comprehensive Approach for Process Window Qualification |
| 14:45-15:05 | NanNan Zhang (GalaxyCore Semiconductor Limited): A method of Combing Optical Proximity Correction and Design Layout Optimization to Improve Process Window |
| 15:05-15:25 | Jiwei Shen (East China Normal University): Large-scale chip layout pattern clustering method based on graph matching |
| 15:25-15:45 | Coffee Break |
| 15:45-17:05 | Process and Simulation Session Chair: Feng Shao 邵峰 |
| | <i>5 minutes Q&A for each talk</i> |
| 15:45-16:05 | Yuyang Bian (Huali): Edge Placement Error Analysis Through Backscattered Electron Imaging |
| 16:05-16:25 | Fuxun Chen (Zhejiang Univ): Achieving High-Accuracy and Noise-Robust Process Window Analysis through Stepwise Regression |
| 16:25-16:45 | Kan ZHOU (Huali): Evaluation of Hotspots EPE Propagation Through Step-by-Step SEM Contour Analysis |
| 16:45-17:05 | Yuxing Zhou (Beijing Superstring Academy of Memory Technology): Spider mask reticle heating impact to on product overlay |
| 17:05-17:10 | Closing Plenary Address 闭幕致辞 Chair: Wenzhan Zhou, Yayi Wei |

Agenda is subject to change

Poster Session

15 Oct. 2024

17:30-18:30 Outdoor of JIAHE Grand Ballroom 宴会厅前廊

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| IWAPS2024-P-01 | CHIH-LI(Julius) Chen, Ting Wang, Jifeng Miao, He Li, Changqi Sun, Dawen Yang, Pinhong Lin, Xiaodong Meng (Rong Semiconductor Co., Tsinghua Univ., AMEGADAC) An effective Methodology of filter, measure and align SEM image in model calibration |
| IWAPS2024-P-02 | Xinyuan Zhang, Miaohong Yao, Shibin Xu , Kun Ren, Yongyu Wu (Zhejiang ICsprout Semiconductor, Zhejiang Univ. Siemens EDA) SEM contour extraction application on opc model of CT layer |
| IWAPS2024-P-03 | Ruixiang Chen, Yang Zhao, Rui Chen (Sun Yat-sen University) Inverse lithography based on a physics-driven deep learning approach |
| IWAPS2024-P-04 | Yongkang Liu, Wei Zhao, Ruixiang Yan, Kai Ni, Yuandong Gu, Jianlin Li (Shanghai University, Shanghai Melon Technology Co., Shanghai Industrial μTechnology Research Institute) Research on Optical Proximity Correction with Embedded Coordinate Convolution Module |
| IWAPS2024-P-05 | Dion King, Ying Zhang, Qijian Wan, Ruizuo Hou, Shiwei Zhang, Chunshan Du (Huahong Grace Semiconductor Manufacturing Corporation, Siemens EDA) A Fully Automatic and Generic Method for Classifying Repeating Array Designs |
| IWAPS2024-P-06 | Liuye Meng, Kun Ren, Yongyu Wu, Dawei Gao, Zheju Yan (Zhejiang University, Zhejiang ICsprout Semiconductor Co.) Fast Layout Pattern Matching Using Spatial Indexing |
| IWAPS2024-P-07 | He Yang, Miao Yuan, Zhaoxuan Li, Zhen Li, Yanqiu Li (Beijing Institute of Technology) Fast curvilinear optical proximity correction adopting quasi-uniform B-spline curves |
| IWAPS2024-P-08 | Zhen Li, He Yang, Miao Yuan, Zhaoxuan Li, Yuqing Chen, Yanqiu Li (Beijing Institute of Technology) Fast lithographic source optimization adopting RMSProp with iterative shrinkage-thresholding algorithm compressive sensing for high fidelity patterning |
| IWAPS2024-P-09 | Zhilong Zhong, Jiamin Liu , Hao Jiang, Honggang Gu, Shiyuan Liu (Huazhong University of Science and Technology) EUV Lithography imaging modeling and calculation based on full-vector beam propagation method |
| IWAPS2024-P-10 | Zhaoxuan Li, Miao Yuan, He Yang, Zhen Li, Yuqing Chen, Yanqiu Li (Beijing Institute of Technology) Enabling Source and mask optimization by creating a dynamic aberration model |

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| IWAPS2024-P-11 | Hongye Gao, Linqiang Ye, Jingfeng Kang, Wei Li, Aijiao Zhu, Xuanyu Ta, Jincheng Pei, Kevin Huang (Peking Univ., Semiconductor Manufacturing Beijing Corporation, KLA) Implementation of a Versatile and Efficient Monitoring System in Semiconductor High-Volume Manufacturing |
| IWAPS2024-P-12 | Di Liang, Hao Yang, Yufei Sha, Yuxing Zhou, Jiahao Xi, Enqiang Tian, Mingyi Yao, Ganlin Song, Jiangliu Shi, Miao Jiang (Beijing Superstring Academy of Memory Technology) A study of aerial image NILS and exposure energy as improvement factors for LER |
| IWAPS2024-P-13 | Yogev Baruch, Shuo Liu, Shu Lu, Shalev Dror, Zhenyu Wu (Zeiss) ZEISS ForTune provides Intra-Field solutions at High Lateral Resolution for CDU and Overlay to increase IC manufacturing performance |
| IWAPS2024-P-14 | Jiwei Shen (East China Normal University, Huali) Photolithographic Image Prediction Using Weak Supervision and Feature Encoding |
| IWAPS2024-P-15 | Yongyu Wu, Miaohong Yao, Shibin Xu, Kun Ren, Dawei Gao, Xiaoci Li, Qijian Wan, Chunshan Du (Zhejiang University, Zhejiang ICsprout Semiconductor Co., Siemens EDA) Accurate SEM Contour-Based Measurement and Analysis of SRAM Patterns for Enhanced Design Optimization |
| IWAPS2024-P-16 | Kunyang Li, Jinjiang Fu, Shuying Deng, Zhou Zhou (Institute of Advanced Science Facilities, Sun Yat-sen University) Application of Wiener Filter in Mask Detection |
| IWAPS2024-P-17 | Shengru Niu, Yiming Xu, Jing Zhou, Yichen Zhang, Weixuan Zeng, Shisheng Xiong (Fudan University, Zhangjiang laboratory) Measurement and Analysis Algorithm for Sub-30 nm Patterns of Hexagonal Arrays in Microphotography |
| IWAPS2024-P-18 | Zheng Lan, Wei Zhao, Xiupeng Shi (Shanghai University) Advancing Semiconductor Defect Detection with Integrated Deep Learning and Color Scale Preprocessing |
| IWAPS2024-P-19 | Hao Yang, Di Liang, Yuxing Zhou, Jiahao Xi, Enqiang Tian, Mingyi Yao, Ganlin Song, Jiangliu Shi, Miao Jiang (Beijing Superstring Academy of Memory Technology) The implementation of overlay compensation between multiple photo layers generated by a single mask |
| IWAPS2024-P-20 | Hongye Gao, Linqiang Ye, Jingfeng Kang, Lingyi Guo, Gaolin Mu, Jincheng Pei (Peking University, Semiconductor Manufacturing Beijing Corporation, KLA) Customized Metrology Target Design Against OPO Challenges |
| IWAPS2024-P-21 | Botong Zhao, Yue Lu, Kan Zhou, Wenzhan Zhou (East China Normal University, Shanghai Huali Microelectronics Corporation) |

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| | Integrated Circuit Defect Classification Based on Multi-layer Attention Mechanisms |
| IWAPS2024-P-22 | Xintong Zhao, Botong Zhao, Jiwei Shen, Hu Lu, Pengjie Lou, Kan Zhou, Wenzhan Zhou (Shanghai Huali, East China Normal University) Machine Learning Based Using Layout to Generate Reference SEM Images for Defect Inspection |
| IWAPS2024-P-23 | Lin Du (Shanghai Huali) OCD Accuracy Improvement through Auto-TEM measurement |
| IWAPS2024-P-24 | Zhiping Mou, Kun Ren, Dawei Gao, Shibin Xu, Yanjiang Li, Chenwei Sun, Bo Pang (Zhejiang University, Zhejiang ICsprout Semiconductor Co.Ltd, Siemens EDA) An efficient way towards massive CD-SEM metrology recipes based on Line Scan analysis--release your hands |
| IWAPS2024-P-25 | Tao Wang, Changchang Zhuang, Guo Yang, Hanshen Xin, Lin Jiang, Jianhua Zhang (Shanghai University) Interface engineering of underlayer of chemically-amplified EUV photoresists to enhance the photolithographic performance |
| IWAPS2024-P-26 | Xianguo Dong (Shanghai Huali) Study on Interaction Between Bottom SIARC and Photoresist |
| IWAPS2024-P-27 | Jinyuan Song, Jing Li, Qingchen Wang, Qingyang Zhang, Wenhe Yang (Zhejiang University, Northeastern University) Data-Driven Prediction and Interpretation of Defect States in II-oxides wide-bandgap semiconductors |
| IWAPS2024-P-28 | Qingchen Wang, Jing Li, Qingyang Zhang, Jinyuan Song, Dazhong Ma (Zhejiang University, Northeastern University) Prediction and Design of Sapphire Materials Using Deep Transfer Learning and Materials Informatics |
| IWAPS2024-P-29 | Pengyu Sun, Fazhi Song, Yang Liu, Jiubin Tan (Harbin Institute of Technology) Frequency-domain Modeling-free Learning Control for Wafer Stages with Transient Improvement by Adaption |
| IWAPS2024-P-30 | Guo Yang, Lifang Wu, Tao Wang, Xingyang Wu, Shenghao Wang, Luqiao Yin, Zihan Wang, Lin Jiang, Jianhua Zhang (Shanghai University) Vacuum cleaning of amorphous carbon using hydrogen plasma for EUV lithography |
| IWAPS2024-P-31 | Yuqing Chen, Yanbei Nan, Tong Li, Zhenkun Zhang, Yanqiu Li (Beijing Institute of Technology) Allocation method of micromirror array for deep ultraviolet illumination system |
| IWAPS2024-P-32 | Wenhe Yang, Jing Li, Guanghua Yang, Jinyuan Song (Zhejiang University) Potential Application of Mueller Matrix Spectroscopic Ellipsometry |

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| | for Alignment in Advanced Lithography |
| IWAPS2024-P-33 | Yingxiao Li, Zhinan Zeng (Shanghai Institute of Optics and Fine Mechanics) Study on EUV mask blank inspection with multi-wavelength high harmonic generation EUV source |
| IWAPS2024-P-34 | Hongwei Huang, Haolan Wang, Yuyang Liu, Sikun Li (Shanghai University, Shanghai Institute of Optics and Fine Mechanics) TransUNet-Based End-to-End Proximity Effect Correction for Electron Beam Lithography |
| IWAPS2024-P-35 | Biao Wang, Qiancheng Wang, Bo Feng (Hunan University) Dummy-filled nTSV-first Process and Its Application in Backside Power Delivery Networks (BSPDN) |
| IWAPS2024-P-36 | Kaisheng Chen (Shanghai Optical Lithography Engineering Corp.) Fresnel Diffraction by Rectangular Aperture: A Non-approximate Integral Theorem and Aperture Pattern Correction |
| IWAPS2024-P-37 | Hongbin Chen, Feifeng Huang, Qiancheng Wang, Biao Wang, Bo Feng (Hunan University) Low Temperature Oxidation for nanoTSV-last Process in BSPDN |
| IWAPS2024-P-38 | Zhao Chen, Feifeng Huang, Biao Wang, Qiancheng Wang, Bo Feng (Hunan University) Atomic Layer Deposition of Ru in nanoTSV for Low- resistivity Electrical Connections |
| IWAPS2024-P-39 | Feifeng Huang, Qiancheng Wang, Biao Wang, Bo Feng (Hunan University) Enabling Backside Interconnects for Power Delivery Via High-Precision Integration of nTSV-middle with the Buried Power Rails |
| IWAPS2024-P-40 | Jingyu Chen, Puzhen Li, Yudan Su, Weixuan Zeng, Shisheng Xiong (Fudan University, Zhangjiang laboratory) Integration of Deep Learning for Nonlinear Spectral Decomposition of in Situ interfaces Analysis |
| IWAPS2024-P-41 | Zhiyong Wu, Jiacheng Luo, Qingshu Dong, Jiaxiang Li, Xingran Xu, Zili Li, Weihua Li, Yan Zhang, Shisheng Xiong (Fudan University, Zhangjiang laboratory) Quadruple hole multiplication by Directed Self-assembly of Block Copolymer |
| IWAPS2024-P-42 | Jiacheng Luo, Zhiyong Wu, Zili Li, Yan Zhang, Shengxiang Ji, Shisheng Xiong (Fudan University, Zhangjiang laboratory, Changchun Institute of Applied Chemistry) Influence of sidewall affinity on the directed self-assembly for contact hole multiplication |
| IWAPS2024-P-43 | Kangpeng Huang, Wenhao Wang, Jiacong Zhao, Siyu Feng, Zhaoyang Lan, Zhensheng Zhang, Xuefeng Song, Dapeng Yu (Southern University of Science and Technology, Shenzhen Institute for Quantum Science and Engineering, Hefei National |

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| | Laboratory) Application of path planning in vector scanning electron beam lithography |
| IWAPS2024-P-44 | Eddy Liu, Steven Zeng, Fangyi Shi, Yue Li, Terry Pan, and Jinbo Liu (Cansemi, Optimlitho) Rigorous Simulation for Impact of Wafer Topography on Critical Dimension |
| IWAPS2024-P-45 | Xin Sun, Jun Ke, and Xu Ma (Beijing Institute of Technology) Thermal Microscopic Imaging based on Diffusion Models for Super-resolution Inspection |
| IWAPS2024-P-46 | Ziqi Li, Lisong Dong, Xiaojing Su, Wei Zhao, Yayi Wei, Lijie Zhang (IMECAS, UCAS, STIC) A fast method for aerial image blur evaluation |
| IWAPS2024-P-47 | Jingjing Li, Yi Tong, Guangjian He, Junyu Lu and Yu Wang (GIICS) A methodology for random placement of unit patterns to identify potential design and process optimizations |

Agenda is subject to change

For update agenda and further information, please visit the website: www.iwaps.org