第九届材料基因工程国际论坛

议程概览

2025.11.19-23 西安

论坛日程整体安排

日期	时间	内容	地点
11.19	10:00-23:00	注册报到	18 号楼 L 层
	17:00-20:00	代表晚餐	详见餐券信息
11.20	8:30-10:10	论坛开幕式	会议中心一层 陕西大会堂
	10:10-12:10	主论坛大会报告	
	12:00-13:30	午餐（分区就餐，详见餐券）	
	13:30-16:40	主论坛大会报告	
	16:50-17:20	全国新材料大数据创新联盟会员大会	
	7:30-19:30	墙报与技术展览	
	18:00-20:00	晚餐，研究生墙报颁奖	10 号楼二层千人宴会厅
11.21	8:30-18:30	A: 材料高效计算与智能设计	会议中心二层宝鸡厅
		B: 材料变革性实验技术	会议中心二层咸阳厅
		C: 材料科学智能与大模型	会议中心二层渭南厅
		D: 材料大数据与数据资源	会议中心二层主席团厅
		E: 材料产业智能化发展与应用：重大工程	18 号楼二层 2-17
		F: 材料产业智能化发展与应用：航空航天	18 号楼二层 2-17
		G: 材料产业智能化发展与应用：智赋新能	18 号楼二层石榴厅
		H: 材料基因工程与智能科学“一带一路”国际分论坛	会议中心一层西安厅
		I: AMDC 工作会议	18 号楼二层 2-5
		研究生墙报	会议中心二层连廊
		技术展览	会议中心一层北大厅
	11:30-13:30	午餐	详见餐券信息
	17:30-19:30	晚餐	详见餐券信息

日期	时间	内容	地点
11.22	8:30-12:00	A: 材料高效计算与智能设计	会议中心二层宝鸡厅
		B: 材料变革性实验技术	会议中心二层咸阳厅
		C: 材料科学智能与大模型	会议中心二层渭南厅
		E: 材料产业智能化发展与应用：重大工程	18 号楼二层 2-17
		G: 材料产业智能化发展与应用：智赋新能	18 号楼二层石榴厅
		J: MGE Advances 期刊论坛	18 号楼二层 2-8
		K: 圆桌讨论会：数据资源节点内容与数据标准化	18 号楼二层 2-5
	11:30-13:30	午餐	详见餐券信息
	13:30-17:30	J: MGE Advances 期刊论坛	18 号楼二层 2-8
备注：材料基因工程领域项目实施方案论证会等平行技术会议信息详见各自单行本会议手册			

第九届材料基因工程国际论坛开幕式及主论坛大会报告
Opening Ceremony & Plenary Session Program of 9th ForMGE

时间：2025 年 11 月 20 日（北京时间） 地点：会议中心一层陕西大会堂 Date: Nov 20th 2025 (Beijing Time, UTC+8) Venue: 1st Floor, Conference Center (Shaanxi Grand Hall)

开幕式 Opening Ceremony				
01	8:30-10:00	嘉宾介绍与领导致辞 Guests Introduction and Welcome Remarks		
02		论坛颁奖仪式 ForMGE Award Ceremony		
03		联合实验室揭牌仪式 Joint Laboratory Inauguration Ceremony		
04		成果发布仪式 Software and Database Achievements Launch Ceremony		
主论坛报告 Plenary Speech				
编号 No.	时间 Time	演讲人 Speaker	单位 Affiliations	报告题目 Presentation Title
P1-01	10:10-10:40	王江平 WANG Jiangping	第十四届全国政协委员、工业和信息化部原副部长 Member of the 14th CPPCC, Former Deputy Minister of Industry and Information Technology of China	AI 科学发现的“堰塞湖”效应及对策 The “Landslide-dammed Lake” Effect in AI Scientific Discovery and Countermeasures
P1-02	10:40-11:10	王迎军 WANG Yingjun	华南理工大学，中国工程院院士 South China University of Technology; Academician of CAE	材料基因工程驱动的生物适配智能抗菌材料 Bio-Adaptive Smart Antibacterial Materials Driven by the Materials Genome Initiative
P1-03	11:10-11:40	谢在库 XIE Zaiku	中国石化集团，中国科学院院士 China Petrochemical Corporation; Academician of CAS	新材料发展路径及其基因工程 New Materials Development and MGE
P1-04	11:40-12:10	张立群 ZHANG Liqun	西安交通大学，中国工程院院士 Xi‘an Jiaotong University; Academician of CAE	高分子弹性体材料基因工程研究进展 Materials Genome Engineering Research Progress on Polymeric Elastomer Materials
12:10-13:30		午 餐 Lunch		

主论坛报告 Plenary Speech				
编号 No.	时间 Time	演讲人 Speaker	单位 Affiliations	报告题目 Presentation Title
P1-05	13:30-14:00	Artem R. Oganov	俄罗斯斯科尔科沃科学技术学院 欧洲科学院院士 Skolkovo Institute of Science and Technology, Russia Member of Academia Europaea	Predicting and Explaining New Materials and Chemical Phenomena
P1-06	14:00-14:30	Nicola Marzari	瑞士洛桑联邦理工学院 EPFL, Switzerland	The electronic structure of materials: from high-throughput explorations to novel foundations
P1-07	14:30-15:00	李昊 LI Hao	日本东北大学 Tohoku University, Japan	Introduction to Digital Materials: A Digital Platform Driven Closed-Loop Framework for AI+Materials
15:00-15:10		茶 歇 Tea Break		
P1-08	15:10-15:40	孙志梅 SUN Zhimei	北京航空航天大学 Beihang University	ALKEMIE：可视化高通量自动流程智能材料计算平台 ALKEMIE：High-throughput and Autonomous Computing Platform
P1-09	15:40-16:10	宿彦京 SU Yanjing	北京科技大学 University of Science and Technology Beijing	材料大数据治理与应用 Materials Big Data Governance and Applications
P1-10	16:10-16:40	向 勇 XIANG Yong	电子科技大学 University of Electronic Science and Technology of China	材料高通量智能自主实验 Autonomous High-Throughput Materials Experimentation
联盟活动 Alliance Event				
	16:50-17:20	**全国新材料大数据创新联盟会员大会**		
		技术展览、墙报展示等 Technical Exhibition, Poster , etc.		

材料高效计算与智能设计分论坛
Symposium A： High efficiency Materials Computation and Intelligent Design Symposium

分论坛召集人：孙志梅、王毅、杨明理
Symposium Organizers: SUN Zhimei, WANG Yi, YANG Mingli

时间：11 月 21 日全天、11 月 22 日上午 Nov 21st-22th　　地点：会议中心二层咸阳厅 Xianyang Hall, 2nd Floor, Conference Center

2025.11.21 AM				
主持人：王毅 西北工业大学、杜勇 中南大学 **Session Chairs:** WANG Yi, Northwestern Polytechnical University; DU Yong, Central South University				
编号 No.	时间 Time	演讲人 Speaker	单位 Affiliations	报告题目 Presentation Title
S1-01	8:30-8:50	杜勇 DU Yong	中南大学 Central South University	Intelligent computational software for phase diagrams and thermophysical properties of engineering materials and its applications
S1-02	8:50-9:10	肖纳敏 XIAO Namin	中国航发北京航空材料研究院 AECC Beijing Institute of Aeronautical Materials	Development of Algorithms and Software for Material Preparation Processes and Service Behavior under Multi-Field Coupling Conditions
S1-03	9:10-9:30	樊哲勇 FAN Zheyong	渤海大学 Bohai University	GPUMD software and the NEP machine-learned potential method
S1-04	9:30-9:50	何力新 HE Lixin	中国科技大学 University of Science and Technology of China	Recent Development and Applications of the ABACUS First-Principles Computation Package
S1-05	9:50-10:05	杨玉荣 YANG Yurong	南京大学 Nanjing University	A Large-Scale Computational Method of Effective Hamiltonian Based on the Phonon: Phonon Dynamics
10:05-10:15		茶 歇 Tea Break		
主持人：孙志梅 北京航空航天大学、陈云 中科院金属所 **Session Chairs:** SUN Zhimei, Beihang Univerisity; CHEN Yun, Institute of Metal Research, Chinese Academy of Sciences				
S1-06	10:15-10:35	陈云 CHEN Yun	中国科学院金属研究所 Institute of Metal Research, Chinese Academy of Sciences	Fast Phase-Field Model for Alloy Solidification and Its Applications
S1-07	10:35-10:55	孙升 SUN Sheng	上海大学 Shanghai University	Metamaterials design accelerated by AI: Softwares and applications
S1-08	10:55-11:10	王晨充 WANG Chenchong	东北大学 Northeastern University	Autonomous Discovery of Material Mechanisms and Causal-Loop Alloy Design

编号 No.	时间 Time	演讲人 Speaker	单位 Affiliations	报告题目 Presentation Title
S1-09	11:10-11:25	方国勇 FANG Guoyong	温州大学 Wenzhou University	Intelligent design and simulation of high entropy alloys via machine learning
S1-10	11:25-11:40	刘传来 LIU Chuanlai	上海交通大学 Shanghai Jiao Tong University	Multiphysics Digital Twin and AI-Driven Advanced Materials Design（MGE 青年科学家获奖报告）
S1-11	11:40-11:55	王杰 WANG Jie	浙江大学 Zhejiang University	Quantification of gradient energy coefficients in Phase field model by using physics-informed neural networks
2025.11.21 PM				
主持人：杨明理 四川大学、董超芳 北京科技大学 **Session Chairs:** YANG Mingli, Sichuan University; Dong Chaofang, University of Science and Technology Beijing				
S1-12	13:30-13:50	董超芳 Dong Chaofang	北京科技大学 University of Science and Technology Beijing	Calculation data-driven design and optimization of coatings for Ti bipolar plates in PEM water electrolyser environment
S1-13	13:50-14:10	王永祯 WANG Yongzhen	太原理工大学 Taiyuan University of Technology	AI-Driven Multiscale Simulation: Intelligent Design and Optimization of Solid Electrolyte Materials
S1-14	14:10-14:25	侯廷政 HOU Tingzhen	清华大学深圳国际研究生院 Tsinghua Shenzhen International Graduate School	AI-Driven Design of Solid-State Battery Materials
S1-15	14:25-14:40	宋二红 SONG Erhong	中国科学院上海硅酸盐研究所 Shanghai Institute of Ceramics, Chinese Academy of Sciences	Intelligent Design and Multidimensional Optimization Strategies for Electrocatalyst Screening
S1-16	14:40-14:55	贾雪 JIA Xue	日本东北大学 Tohoku University	Data-Driven Closed-Loop Frameworks for Energy Materials Design
S1-17	14:55-15:10	乔俊峰 QIAO Junfeng	瑞士洛桑联邦理工学院 Swiss Federal Institute of Technology Lausanne	Uncovering two-dimensional materials with nonlinear Hall responses
S1-18	15:10-15:30	吴其胜 WU Qisheng	苏州实验室 Suzhou Laboratory	AI-Accelerated Multiscale Computational Design of Materials and Interfaces/ Interphases in Lithium Batteries
15:30-15:40		茶 歇 Tea Break		

主持人：杨炯 上海大学、王锦程 西北工业大学 **Session Chairs:** YANG Jiong, Shanghai University; WANG Jincheng, Northwestern Polytechnical University				
编号 No.	时间 Time	演讲人 Speaker	单位 Affiliations	报告题目 Presentation Title
S1-19	15:40-16:00	王锦程 WANG Jincheng	西北工业大学 Northwestern Polytechnical University	Learning spatiotemporally translation-invariant local evolution rules enables data-driven acceleration of phase-field simulations
S1-20	16:00-16:20	吴宏辉 WU Honghui	北京科技大学 University of Science and Technology Beijing	Effect of Local Chemical Ordering on the Mechanical Properties of Complex Concentrated Alloys.（MGE 青年科学家获奖报告）
S1-21	16:20-16:35	张亮 ZHANG Liang	重庆大学 Chongqing University	Combined first-principles calculation and machine learning for the strength of grain boundaries with solute segregation in aluminum
S1-22	16:35-16:50	王慷 WANG Kang	上海交通大学 Shanghai Jiao Tong University	Integrated computational design of lightweight metals and composites
S1-23	16:50-17:05	叶财超 YE Caichao	南方科技大学 Southern University of Science and Technology	Exploring of organic polymer functional materials by machine learning based on “polymer unit”
S1-24	17:05-17:20	周笑餍 ZHOU Xiaoye	深圳北理莫斯科大学 Shenzhen MSU-BIT University	Atomic-Scale Mechanisms of Interstitial Atom-Regulated Alloy Phase Transformation, Mechanical Properties, and Stability
S1-25	17:20-17:40	杨炯 YANG Jiong	上海大学 Shanghai University	AI-powered Thermoelectric Study
S1-26	17:40-17:55	孙烁琪 SUN Shuoqi	达索系统（上海）信息技术有限公司 Dassault Systemes (Shanghai) Information Technology Co., Ltd.	High-throughput screening and multi-scale virtual verification of low-temperature electrolyte materials for lithium-ion batteries

2025.11.22 AM				
主持人：宋丹丹 北京交通大学、刘轶 上海大学 **Session Chairs:** SONG Dandan, Beijing Jiaotong University; LIU Yi, Shanghai University				
编号 No.	时间 Time	演讲人 Speaker	单位 Affiliations	报告题目 Presentation Title
S1-27	8:30-8:50	刘轶 LIU Yi	上海大学 Shanghai University	Feature Engineering in Machine Learning for Crystalline Materials via Integrating Materials Representations
S1-28	8:50-9:05	李发发 LI Fafa	中国钢研科技集团有限公司 China Iron & Steel Research Institute Group	Numerical and Experimental Investigation of Particle Motion Behavior in Heterogeneous Powder Beds for LPBF
S1-29	9:05-9:20	巩桐兆 GONG Tongzhao	中国科学院金属研究所 Institute of Metal Research, Chinese Academy of Sciences	Large-Scale Phase-Field Simulation for Alloy Solidification
S1-30	9:20-9:35	郭龙飞 GUO Longfei	西北有色金属研究院 Northwest Institute for Nonferrous Metal Research	Machine Learning-Driven Investigation of Surface Reconstruction and Catalytic Performance in PdAg Nanoalloys
S1-31	9:35-9:50	宋丹丹 SONG Dandan	北京交通大学 Beijing Jiaotong University	Intelligent Screening and Design of OLED Luminescent Materials
9:50-10:00		茶 歇 Tea Break		
主持人：徐定国 四川大学、张伟彬 山东大学 **Session Chairs:** XU Dingguo, Sichuan University; ZHANG Weibin, Shandong University				
S1-32	10:05-10:25	张伟彬 ZHANG Weibin	山东大学 Shandong University	Data-driven Design of Wear-Resistant Materials（MGE 青年科学家获奖报告）
S1-33	10:25-10:40	罗群 LUO Qun	上海大学 Shanghai University	Design of High-Strength and High-Thermal-Conductivity Mg Alloys Based on Integrated Computation
S1-34	10:40-10:55	陈凯运 CHEN Kaiyun	西北有色金属研究院 Northwest Institute for Nonferrous Metal Research	The Conforming between Chemical Short-range Order and Structure in NiTi1-xHfx Shape Memory Alloy: Martensite Transition and Superelasticity
S1-35	10:55-11:10	成海霞 CHENG Haixia	钢研国际新材料创新中心（深圳）有限公司 Research Institute of Advanced Materials (Shenzhen) Co., Ltd.,	Nonvolatile electric control of Rashba spin splitting in Sb/In2Se3 heterostructure
S1-36	11:10-11:25	李全 LI Quan	钢研纳克检测技术股份有限公司 The NCS Testing Technology Co., Ltd.	Investigation of the Regulation Mechanism of Ni-Doped Cu_2O on the Marine Corrosion Resistance of B10 Cu-Ni Alloy Using First-Principles Calculations
S1-37	11:25-11:40	彭浩然 PENG Haoran	西北有色金属研究院 Northwest Institute for Nonferrous Metal Research	Thermodynamics and kinetics of martensitic transformation in iron-based alloys via Bain path: Models and atomistic simulations

材料变革性实验技术分论坛
Symposium B : Revolutionary Materials Experimental Technology Symposium

分论坛召集人：刘建军、惠健、张达威、汪洪、刘志甫、赵晓琳
Symposium Organizers: LIU Jianjun, HUI Jian, ZHANG Dawei, WANG Hong, LIU Zhifu, ZHAO Xiaolin

时间：11 月 21 日全天、11 月 22 日上午 Nov 21st-22nd　　地点：会议中心二层咸阳厅 Xianyang Hall, 2nd Floor, Conference Center

2025.11.21 AM				
主持人：刘建军 中国科学院上海硅酸盐研究所 、谢宇俊 上海交通大学 **Session Chairs:** LIU Jianjun, Shanghai Institute of Ceramics, Chinese Academy of Sciences; XIE Yujun, Shanghai Jiao Tong University				
编号 No.	时间 Time	演讲人 Speaker	单位 Affiliations	报告题目 Presentation Title
S2-01	8:30-8:50	温晓东 WEN Xiaodong	中国科学院山西煤炭化学研究所 Institute of Coal Chemistry, Chinese Academy of Sciences	Exploration and Practice of Intelligent R&D of Coal Conversion Process
S2-02	8:50-9:10	Helge Sören Stein	Technical University of Munich, TUM School of Natural Sciences	Engineering of research for rapid understanding and accelerated discovery
S2-03	9:10-9:25	王珊珊 WANG Shanshan	国防科技大学 National University of Defense Technology	Machine Learning-Empowered Atomic-Scale Structural Analysis
S2-04	9:25-9:40	谢宇俊 XIE Yujun	上海交通大学 Shanghai Jiao Tong University	Artificial Intelligence-Driven Cryo-4D-STEM Analysis of Amorphous States in Lithium Battery Electrolytes
S2-05	9:40-9:55	余 兴 YU Xing	钢研纳克检测技术股份有限公司 The NCS Testing Technology Co., Ltd.	Development and application of glow discharge sputtering device for rapid and high-quality preparation of materials microstructure characterization
9:55-10:10		茶 歇 Tea Break		
主持人：惠健 苏州实验室、付 腾 四川大学 **Session Chairs:** HUI Jian, Suzhou Laboratory; FU Teng, Sichuan University				
S2-06	10:10-10:30	白 洋 BAI Yang	北京科技大学 University of Science and TechnologyBeijing	Autonomous experimental technology for advanced ceramics and intelligent R&D platforms
S2-07	10:30-10:50	付 腾 FU Teng	四川大学 Sichuan University	A Research Paradigm for Fire-Safe Materials Development Based on Reaction-to-Fire Characterization Data and Artifi cial Intelligence Assistance（MGE 青年科学家获奖报告）
S2-08	10:50-11:05	赵怡程 ZHAO Yicheng	电子科技大学 University of Electronic Science and Technology of China	Development and Application of a High-Reliability, High-Throughput Experimental Platform for Optoelectronic Materials in the AI Era
S2-09	11:05-11:20	孙 松 SUN Song	安徽大学 Anhui University	Catalytic Material Genome Engineering and its Industrialization
S2-10	11:20-11:35	宋有朋 SONG Youpeng	钢研国际新材料创新中心（深圳）有限公司 CISRI International New Materials Innovation Center (Shenzhen) Co., Ltd.	Study on Intelligent Design and Performance Infl uence Mechanisms of Precipitation-Strengthened Eutectic High-Entropy Alloys Fabricated by Additive Manufacturing

S2-11	11:35-11:50	易 萌 YI Meng	河南省科学院材料基因工程研究所 Institute of Material Gene Engineering, Henan Academy of Sciences	Microstructure Design and Mechanical Properties of High Temperature Creep Resistant Al-Ce Eutectic Aluminum Alloy
12:00-13:30		午 餐 Lunch		
2025.11.21 PM				
主持人：汪洪 上海交通大学、黄 科 四川大学 **Session Chairs:** WANG Hong, Shanghai Jiao Tong University; HUANG Ke, Sichuan University				
编号 No.	时间 Time	演讲人 Speaker	单位 Affiliations	报告题目 Presentation Title
S2-12	13:30-13:50	江俊 JIANG Jun	中国科学技术大学 University of Science and Technology of China	Spectrum-Structure-Activity Data-Driven Exploration with Machine Chemist
S2-13	13:50-14:10	Dongwoo Lee	School of Mechanical Engineering, Sungkyunkwan University, South Korea	Development of Additive Manufactured Invar Alloy and Its Metastructure through High-Throughput Intelligent R&D Platform
S2-14	14:10-14:25	叶益聪 YE Yicong	国防科技大学 National University of Defense Technology	MatPilot V2.0: an LLM-enabled AI Materials Scientist under the Framework of Human-Machine Collaboration
S2-15	14:25-14:40	周 敏 ZHOU Min	中国科学院长春应用化学研究所 Changchun Institute of Applied Chemistry, Chinese Academy of Sciences	AI-eChemist: Data-Driven Acceleration of Catalyst Screening and R&D Innovation
S2-16	14:40-14:55	王 亮 WANG Liang	中国科学院上海硅酸盐研究所 Shanghai Institute of Ceramics, Chinese Academy of Sciences	AI-assisted visualization of the service-induced damage process in thermal barrier coatings
S2-17	14:55-15:10	黄 科 HUANG Ke	四川大学 Sichuan University	Materials and Products Development through High-Throughput Intelligent R&D Platform
15:10-15:25		茶 歇 Tea Break		
主持人：刘志甫 中国科学院上海硅酸盐研究所 、梁国进 深圳理工大学 **Session Chairs:** LIU Zhifu, Shanghai Institute of Ceramics, Chinese Academy of Sciences; LIANG Guojin, Shenzhen University of Advanced Technology				
S2-18	15:25-15:45	李 宁 LI Ning	华南理工大学 South China University of Technology	High-throughput autonomous experiments accelerate the iterative development of advanced optoelectronic materials and devices
S2-19	15:45-16:05	高 萌 GAO Meng	中国科学院宁波材料技术与工程研究所 Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Sciences	High-Throughput Screening of New Amorphous Alloy Materials Based on Electronic Work Function
S2-20	16:05-16:20	孙 强 SUN Qiang	上海大学 Shanghai University	Self-driving laboratory under ultrahigh vacuum conditions
S2-21	16:20-16:35	饶梓元 RAO Ziyuan	上海交通大学 Shanghai Jiao Tong University	Machine learning and AI-enabled alloy design: from small data, small model to big data, large model
S2-22	16:35-16:50	雷 前 LEI Qian	中南大学 Central South University	Exploration and practice of the application of material genetic engineering in the development of high-end copper and copper alloys

S2-23	16:50-17:05	梁国进 LIANG Guojin	深圳理工大学 Shenzhen University of Advanced Technology	AI-guided rational design and closed-loop optimization of antifreezing high-entropy electrolytes for zinc-bromine fl ow batteries
S2-24	17:05-17:20	王炫东 WANG Xuandong	钢研国际新材料创新中心（深圳）有限公司 CISRI Research Institute of Advanced Materials (Shenzhen) Co., Ltd	Embedding Methods for Material Images and Building a Vector Database: A Practice
		晚餐 Dinner		
2025.11.22 AM				
主持人：张达威 北京科技大学、熊希临 北京科技大学 **Session Chairs:** ZHANG Dawei, University of Science and Technology Beijing; XIONG Xilin, University of Science and Technology Beijing				
编号 No.	时间 Time	演讲人 Speaker	单位 Affiliations	报告题目 Presentation Title
S2-25	8:30-8:50	刘 政 LIU Zheng	Nanyang Technological University, Singapore	AI-Driven Materials Discovery: From Nano to Bulk
S2-26	8:50-9:10	刘 畅 LIU Chang	西安交通大学 Xi'an Jiaotong University	Near-theoretical strength and deformation stabilization achieved via grain boundary segregation and nano-clustering of solutes
S2-27	9:10-9:30	明洪亮 MING Hongliang	中国科学院金属研究所 Institute of Metal Research, Chinese Academy of Sciences	Assessment Technologies, Standards, and Degradation Mechanisms of Key Materials in Nuclear and Hydrogen Energy Systems（MGE 青年科学家获奖报告）
S2-28	9:30-9:45	熊希临 XIONG Xilin	北京科技大学 University of Science and Technology Beijing	High-Throughput Screening of Alloying Effects on Hydrogen Embrittlement Resistance in Ultra-High-Strength Steels
S2-29	9:45-10:00	王有伟 WANG Youwei	中国科学院上海硅酸盐研究所 Shanghai Institute of Ceramics, Chinese Academy of Sciences	Data- and knowledge-driven design of solid-state battery materials
10:00-10:15		茶 歇 Tea Break		
主持人：赵晓琳 中国科学院上海硅酸盐研究所、姜 璟 深圳理工大学 **Session Chairs:** ZHAO Xiaolin, Shanghai Institute of Ceramics, Chinese Academy of Sciences; JIANG Jing, Shenzhen University of Advanced Technology				
S2-30	10:15-10:35	任 洋 REN Yang	香港城市大学 City University of Hong Kong	The Discovery and Development of Functional Solid-State Materials through Evaporative PVD and High Throughput Screening
S2-31	10:35-10:55	李彦军 LI Yuanjun	Department of Materials Science and Engineering, NTNU	Solute clustering and early-stage precipitation in Al-Mg-Si alloys
S2-32	10:55-11:10	王章维 WANG Zhangwei	中南大学 Central South University	Machine Learning + Three-Dimensional Atomic Probe: From Short-Range Order to Arbitrary Structures
S2-33	11:10-11:25	姜 璟 JIANG Jing	深圳理工大学 Shenzhen University of Advanced Technology	AI + Low-Cost Robotic Platform Empowering High-Value Materials Research
S2-34	11:25-11:40	李冠男 LI Guannan	钢研纳克检测技术股份有限公司 NCS Testing Technology Co., Ltd.	Intelligent Laboratory for Metal Characterization and Design
11:40-13:30		午 餐 Lunch		

材料科学智能与大模型分论坛
Symposium C：AI for Materials Symposium

分论坛召集人：宿彦京、薛德祯、王毅、付华栋
Symposium Organizers: SU Yanjing, XUE Dezhen, WANG Yi, FU Huadong

时间：11 月 21 日全天、11 月 22 日上午 Nov 21st-22nd　　地点：会议中心二层渭南厅 Weinan Hall, 2nd Floor, Conference Center

2025.11.21 AM				
主持人：刘思达 西安交通大学，陈立朋 之江实验室 **Session Chairs:** LIU Sida Xi'an Jiaotong University, Chinese Academy of Sciences; CHEN Lipeng, Zhejiang Lab				
编号 No.	时间 Time	演讲人 Speaker	单位 Affiliations	报告题目 Presentation Title
S3-01	8:30-8:50	刘建军 LIU Jianjun	中科院上海硅酸盐研究所 Shanghai Institute of Ceramics, Chinese Academy of Sciences	Design and Implementation of the MatMind System for Intelligent Materials Innovation
S3-02	8:50-9:10	陈立朋 CHEN Lipeng	之江实验室 Zhejiang Lab	“AI+Porous Metal New Materials” Supporting Satellite Manufacturing
S3-03	9:10-9:30	刘思达 LIU Sida	西安交通大学 Xi'an Jiaotong University	Design of high-performance long-service aluminum alloys under extreme working conditions based on machine learning and seed crystal technology
S3-04	9:30-9:50	王 琦 WANG Qi	中国工程物理研究院材料研究所 Institute of Materials, China Academy of Engineering Physics	AI for Glass Science: Deep Learning-Driven Performance Prediction and Inverse Design of Disordered Alloys（MGE 青年科学家获奖报告）
S3-05	9:50-10:05	黄海友 HUANG Haiyou	北京科技大学 University of Science and Technology Beijing	Graph Neural Networks in Materials Science: From Structure Representation to Practical Applications
S3-06	10:05-10:20	于之刚 YU Zhigang	上海大学 Shanghai University	Thermodynamic Database Construction and Data Mining Platform for Multi-component Alloys
10:20-10:30		茶 歇 Tea Break		

主持人：张鹏 浙江大学，文通其 香港大学 **Session Chairs:** ZHANG Peng, Zhejiang University; WEN Tongqi, The University of Hong Kong				
编号 No.	时间 Time	演讲人 Speaker	单位 Affiliations	报告题目 Presentation Title
S3-07	10:30-10:50	张 鹏 ZHANG Peng	浙江大学 Zhejiang University	Data-driven design of antibacterial polymers
S3-08	10:50-11:10	文通其 WEN Tongqi	香港大学 The University of Hong Kong	A Multi-agent Framework for Materials Laws Discovery
S3-09	11:10-11:30	翁红明 WENG Hongming	中科院物理所 Institute of Physics, Chinese Academy of Sciences	Data Governance and AI-Driven Research Paradigm for Condensed Matters
S3-10	11:30-11:45	张 磊 ZHANG Lei	南京信息工程大学，Nanjing University of Information Science and TechnologyEngineering Physics	Materials Natural Language Data and Large Language Models
S3-11	11:45-12:00	王衍明 WANG Yanming	上海交通大学 Shanghai Jiao Tong University	Deep Learning-Based Analysis and Generation of Material Microstructures
2025.11.21 PM				
主持人：施思齐 上海大学，高旺 吉林大学 **Session Chairs:** SHI Siqi, Shanghai University; GAO Wang Jilin University				
S3-12	13:30-13:50	施思齐 SHI Siqi	上海大学，Shanghai University	Algorithm-Data-Knowledge Symbiosis Empowered Creation and Evaluation of Electrochemical Energy Storage Materials
S3-13	13:50-14:10	Gian-Marco Rignanese	Ecole Polytechnique de Louvain (EPL)	Response properties of inorganic materials from high-throughput density-functional perturbation theory and machine-learning
S3-14	14:10-14:30	范晓丽 FAN Xiaoli	西北工业大学，Northwestern Polytechnical University	Study the frictional properties of two-dimensional materials via machine learning
S3-15	14:30-14:50	高 旺 GAO Wang	吉林大学，Jilin University	Construction of Predictive Models for Damage Mechanisms in Metal Materials
S3-16	14:50-15:05	袁睿豪 YUAN Ruihao	西北工业大学，Northwestern Polytechnical University	MatLoop: An Autonomous Data-driven Pipeline for Full-loop of Material Discovery
S3-17	15:05-15:20	李 蓓 LI Bei	武汉理工大学，Wuhan University of Technology	Deep-learning Molecular Dynamics Simulations of Ferro-piezoelectricity in Lead-free (K, Na)NbO3 Perovskites
S3-18	15:20-15:35	赵晨东 ZHAO Chendong	新加坡南洋理工大学，Nanyang Technological University, Singapore	MatLoop: An Autonomous Data-driven Pipeline for Full-loop of Material Discovery
15:35-15:45		茶 歇 Tea Break		

主持人：ZHANG Hongbin Technical University of Darmstadt，刘 军 北京化工大学 **Session Chairs:** ZHANG Hongbin, Technical University of Darmstadt; LIU Jun, Beijing University of Chemical Technology				
编号 No.	时间 Time	演讲人 Speaker	单位 Affiliations	报告题目 Presentation Title
S3-19	15:45-16:05	ZHANG Hongbin	Technical University of Darmstadt, Germany	Exploring the design space of compositionally complex alloys via active learning
S3-20	16:05-16:25	刘 军 LIU Jun	北京化工大学 Beijing University of Chemical Technology	Artificial Intelligence Research on Polymeric Elastomer Materials
S3-21	16:25-16:45	刘 哲 LIU Zhe	西北工业大学 Northwestern Polytechnical University	Leveraging Artificial Intelligence for Perovskite Solar Cells（MGE 青年科学家获奖报告）
S3-22	16:45-17:00	袁 媛 YUAN Yuan	重庆大学 Chongqing University Technology Engineering Physics	Multi-Objective Optimization Design of High-Performance Magnesium Alloys
S3-23	17:00-17:15	冉 念 RAN Nian	中科院上海硅酸盐研究所 Shanghai Institute of Ceramics, Chinese Academy of Sciences	Intelligent Design and Synthesis of Catalytic Materials
S3-24	17:15-17:30	张 闫 ZHANG Yan	西北有色金属研究院 Northwest Institute for Nonferrous Metal Research	Feature Engineering Accelerates Machine Learning-Assisted Alloy Design
S3-25	17:30-17:45	纪毓成 JI Yucheng	北京科技大学 University of Science and Technology Beijing	Corrosion prediction model for aluminum alloy and its stress corrosion resistance optimization
S3-26	17:45-18:00	朱睿明 ZHU Ruiming	新加坡南洋理工大学 Nanyang Technological University, Singapore	Dis-GEN: Disordered Crystal Structure Generation

2025.11.22 AM				
主持人：徐伟 东北大学，陈忻 苏州实验室 **Session Chairs:** XU Wei，Northeastern University；CHEN Xin, Suzhou Laboratory				
S3-29	8:30-8:50	徐 伟 XU Wei	东北大学 Northeastern University	Materials Genome Database for Metals and Universal Design Paradigm
S3-30	8:50-9:10	陈 忻 CHEN Xin	苏州实验室 Suzhou Laboratory	A Multimodal Large Model for Chemistry & Materials Science
S3-31	9:10-9:25	张洪涛 ZHANG Hongtao	北京科技大学 University of Science and Technology Beijing	Composition and process integrated generative inverse design of high-performance complex copper alloy
S3-32	9:25-9:40	王伟仁 WANG Weiren	北京科技大学 University of Science and Technology Beijing	Design of superalloys with multiple properties via multi-task learning
S3-33	9:40-9:55	马家轩 MA Jiaxuan	上海交通大学 Shanghai Jiao Tong University	Physics-guided pre-training enables few-shot prediction of alloy hot deformation
S3-34	9:55-10:10	张中汉 ZHANG Zhonghan	新加坡南洋理工大学， Nanyang Technological University, Singapore	LLM based AutoSimulation and Benchmark to Enable Efficient and Confident Data Acquirement and Validation in AI-for-Material-Science
15:35-15:45		茶 歇 Tea Break		
主持人：沈忠慧 武汉理工大学，刘淼 中科院物理所 **Session Chairs:** SHEN Zhonghui, Wuhan University of Technology; LIU Miao, Institute of Physics, Chinese Academy of Sciences				
S3-35	10:20-10:40	沈忠慧 SHEN Zhonghui	武汉理工大学 Wuhan University of Technology	生成式学习促进用于电容储能的高熵陶瓷介质的发现
S3-36	10:40-11:00	刘 淼 LIU Miao	中科院物理所 Institute of Physics, Chinese Academy of Sciences	AI 通用势函数及电化学应用
S3-37	11:00-11:15	刘 敏 LIU Min	上海应用技术大学 Shanghai Institute of Technology	Machine-Learning-Assisted Development and a Preliminary Study of High-Strength, High-Conductivity Aluminum Alloys and High-Strength Hydrogen-Embrittlement-Resistant High-Entropy Alloys
S3-38	11:15-11:30	龚海燕 GONG Haiyan	北京科技大学 University of Science and Technology Beijing	Construction and application of molecular intelligent agents for corrosion inhibitors: molecular generation, prediction and recommendation
S3-39	11:30-11:45	李 薇 LI Wei	之江实验室 Zhejiang Lab	Mechanical Property Prediction of Polycrystalline Multiphase Materials Based on Graph Neural Networks
S3-40	11:45-12:00	肖 璐 XIAO Lu	河南省科学院 Henan Academy of Sciences	Prediction of Alloy Fatigue Life Guided by Data and Physical Knowledge

材料大数据与数据资源分会场
Symposium D： Material Data and Data Infrastructures Symposium

分论坛召集人：宿彦京、薛德祯、张雷
Symposium Organizers: SU Yanjing, XUE Dezhen, ZHANG Lei

时间：11 月 21 日全天 Nov 21st　　地点：会议中心二层主席团厅 Presidium Hall, 2nd Floor, Conference Center

2025.11.21				
主持人：郭 宇 北京科技大学，菅晓东 国家超算天津中心 **Session Chairs:** GUO Yu, University of Science and Technology Beijing; JIAN Xiaodong, National Supercomputing Center in Tianjin				
编号 No.	时间 Time	演讲人 Speaker	单位 Affiliations	报告题目 Presentation Title
S4-01	8:30-8:50	张 雷 ZHANG Lei	北京科技大学 University of Science and Technology Beijing	国家新材料大数据中心建设赋能“AI+ 材料”发展
S4-02	8:50-9:10	菅晓东 JIAN Xiaodon	国家超算天津中心 National Supercomputing Center in Tianjin	多源高效新材料计算设计专用数据资源节点建设
S4-03	9:10-9:30	张达威 ZHANG Dawei	北京科技大学 University of Science and Technology Beijing	材料服役数据资源节点建设
S4-04	9:30-9:50	刘 宇 LIU Yu	北京工业大学 Beijing University of Technology	材料生命周期数据资源节点建设
S4-05	9:50-10:10	张晓彤 ZHANG Xiaotong	北京科技大学 University of Science and Technology Beijing	材料科技项目数据汇交节点建设
10:10-10:25		茶 歇 Tea Break		

主持人：陈先华 重庆大学，霍望图 西北有色金属研究院 **Session Chairs:** CHEN Xianhua, Chongqing University; HUO Wangtu, Northwest Institute for Nonferrous Metal Research;				
编号 No.	时间 Time	演讲人 Speaker	单位 Affiliations	报告题目 Presentation Title
S4-6	10:25-10:45	陈先华 CHEN Xianhua	重庆大学 Chongqing University	高端镁及镁合金数据资源节点建设
S4-7	10:45-11:05	霍望图 HUO Wangtu	西北有色金属研究院 Northwest Institute for Nonferrous Metal Research	稀有稀贵金属材料数据资源节点建设
S4-8	11:05-11:20	赵天琦 ZHAO Tianqi	思朗科技 Silan Technology	十万原子级高精度电解液分子动力学计算数据集构建 Construction of a High-Precision Molecular Dynamics Dataset of Nonaqueous Organic Electrolyte at the 100,000-Atom Scale
S4-9	11:20-11:35	杨孟昊 YANG Menghao	同济大学 Tongji University	AI 赋能固态电池原子界面设计
S4-10	11:35-11:50	朱 雷 ZHU Lei	中国科学院上海微系统所，Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences	集成电路材料数据集建设及应用 Construction and Application of Integrated Circuit Materials Dataset
S4-11	11:50-12:05	张楠楠 ZHANG Nannan	国家能源集团北京低碳清洁能源研究院工，National Energy Investment Group Low Carbon Clean Energy Research Institute	AI4S-Driven Construction of High-Quality Datasets
		午 餐		

2025.11.21 PM				
主持人：汪洪 上海交通大学，陈学斌 CSTM/FC93 **Session Chairs:** WANG Hong, Shanghai Jiao Tong University; CHEN Xuebin,CSTM/FC93				
S4-12	13:30-13:50	汪 洪 WANG Hong	上海交通大学 Shanghai Jiao Tong University	模块化可组装材料数据模型与数据标准化
S4-13	13:50-14:10	尹海清 YIN Haiqing	北京科技大学 University of Science and Technology Beijing	材料科学数据描述国家标准建设与国际交流的初探
S4-14	14:10-14:25	陈学斌 CHEN Xuebin	CSTM/FC93	材料数据标准建设（MGE 青年科学家获奖报告）
S4-15	14:25-14:40	郭 宇 GUO Yu	新材料大数据中心，National Materials Big Data Center	材料数据库与融通器系统
S4-16	14:40-14:55	王家宝 WANG Jiabao	上海电气集团中央研究院，Shanghai Electric Group Central Academy	AI for Science 赋能能源材料及装备研发 AI for Science Empowering Energy Materials and Equipment R&D
S4-17	14:55-15:10	冷家冰 LENG Jiabing	中国电子云 China Electronics Cloud	多模态数据融合治理技术与材料高质量数据集构建
S4-18	15:10-15:25	张 莹 ZHANG Ying	之江实验室 Zhejiang Lab	海纳数据枢纽 Haina Data Hub
15:25-15:40		茶 歇 Tea Break		
主持人：郭瑞强 山东高等技术研究院，何 杰 北京科技大学 **Session Chairs:** GUO Ruiqiang, Shandong Institute of Advanced Technology; HE Jie University of Science and Technology Beijing				
S4-19	15:40-16:00	孟凡胜 MENG Fansheng	阿里云 Alibaba Cloud	AI 时代科研新范式
S4-20	16:00-16:20	刘旭韦 LIU Xuwei	百度 Baidu	PaddleMaterials: A Data-Mechanism Dual-Driven Materials Development Platform
S4-21	16:20-16:40	郭瑞强 GUO Ruiqiang	山东高等技术研究院 Shandong Institute of Advanced Technology	导热复合材料人工智能设计（MGE 青年科学家获奖报告）
S4-22	16:40-16:55	王 达 WANG Da	上海大学 Shanghai University	基于配位场理论的高比能正极材料特征解析与智能筛选
S4-23	16:55-17:10	刘 尧 LIU Yao	福州大学 Fuzhou University	人工智能驱动的下一代高性能镁电池电解液开发
S4-24	17:10-17:25	万卫浩 WAN Weihao	钢研纳克检测技术股份有限公司 NCS Testing Technology Co., Ltd.	Research on AI and Data-Driven High-Throughput Statistical Mapping Characterization of Material Microstructures
S4-25	17:25-17:40	虎小兵 HU Xiaobing	西安建筑科技大学 Xi'an University of Architecture and Technology	基于机器学习的双相钢性能预测和成分自适应设计 Machine Learning-Based Property Prediction and Adaptive Composition Design of Dual-Phase Steel

材料产业智能化发展与应用分论坛—重大工程
Sumposium E： Intelligent Development and Applications in the Materials Industry (Major Industry)

分论坛召集人： 向勇、牛晓滨 、刘哲 、伍芳
Sumposium Organizers: XIANG Yong, NIU Xiaobin, LIU Zhe, WU Fang

时间：21 日全天，22 日上午 Nov 21st - 22nd　　地点：18 号楼二层 2-17 Room 2-17, 2nd Floor, Building 18

2025.11.21 AM				
主持人：向 勇 电子科技大学，邵国胜 郑州大学 **Session Chairs:** XIANG Yong, University of Electronic Science and Technology of China; SHAO Guosheng, Zhengzhou University				
编号 No.	时间 Time	演讲人 Speaker	单位 Affiliations	报告题目 Presentation Title
S5-01	8:30-8:55	邵国胜 SHAO Guosheng	郑州大学 Zhengzhou University, China	First-principles materials genome approach for solid-state electrolytes: formulation and experimental exploitation
S5-02	8:55-9:20	WANG Pei	A*STAR, Singapore	Accelerating Alloy Discovery through Machine Learning-Guided High-Throughput Methods
S5-03	9:20-9:45	黄天林 HUANG Tianlin	重庆大学 Chongqing University, China	Establishment of a multi-scale three-dimensional dynamic characterization platform for MGE
S5-04	9:45-10:10	房玉龙 FANG Yulong	河北半导体研究所 Hebei Semiconductor Research Institute, China	Accurate Prediction of Doping Concentration in SiC Epitaxial Materials Based on a Convolutional Attention Mechanism
10:15-10:25		茶 歇 Tea Break		
主持人：黄天林 重庆大学，WANG Pei 新加坡科技研究局 **Session Chairs:** HUANG Tianlin, Chongqing University;WANG Pei, Agency for Science, Technology and Research (A*STAR), Republic of Singapore				
S5-05	10:25 -10:50	张 宝 ZHANG Bao	电子科技大学 University of Electronic Science and Technology of China	Battery Design Intelligence: From Failure Exploration to Lifespan Optimization
S5-06	10:50-11:15	张勇祯 ZHANG Yongzhen	广东腐蚀科学与技术创新研究院 Institute of Corrosion Science and Technology	Prediction of Corrosion Fatigue Crack Growth in Aluminum Alloys using a Hybrid Physics-Data Driven Approach
S5-07	11:15-11:40	金胜利 JIN Shengli	武汉科技大学 Wuhan University of Science and Technology	Multiphysics coupling AI prediction method for thermomechanical behavior of steel ladle linings
S5-08	11:40-12:05	史金涛 SHI Jintao	泛锐云智科技（郑州）有限公司 Van-Research Intelligenc Technology(Zhengzhou) Co.,Ltd.	Big Data Analysis and Artificial Intelligence Applications in Composition and Process of High-Performance Aluminum Alloys
12:05-13:30		午 餐 Lunch		

2025.11.211 PM				
主持人：牛晓滨 电子科技大学，刘哲 西北工业大学 **Session Chairs:** NIU Xiaobin, University of Electronic Science and Technology of China; LIU Zhe, Northwestern Polytechnical University				
S5-09	13:30-13:55	刘 哲 LIU Zhe	西北工业大学 Northwestern Polytechnical University	Leveraging Artificial Intelligence for Perovskite Solar Cells（MGE 青年科学家获奖报告）
S5-10	13:55-14:20	徐家壮 XU Jiazhuang	四川大学，Sichuan University	Construction of a Synchrotron Radiation High-Throughput Characterization Setup for In Situ Investigation of Structural Evolution during polymer Injection Molding
S5-11	14:45-15:10	牛晓滨 NIU Xiaobin	电子科技大学，University of Electronic Science and Technology of China	The Materials Genome Approach to Developing Energy Storage Materials
S5-12	14:20-14:45	张晓琨 ZHANG Xiaokun	苏州实验室， Suzhou Laboratory	Materials Genome Engineering Towards Lithium Batteries with High Energy and Safety
15:35-15:50		茶 歇 Tea Break		
主持人：张晓琨 苏州实验室，徐家壮 四川大学 **Session Chairs:** ZHANG Xiaokun, Suzhou Laboratory; XU Jiazhuang, Sichuan University				
S5-13	15:10-15:35	魏宇学 WEI Yuxue	安徽大学 MGE 青年科学家获奖报告 Anhui University	Parallel Synthesis-High-throughput Screening System（MGE 青年科学家获奖报告）
S5-14	15:50-16:10	李明星 LI Mingxing	中国工程物理研究院材料研究所，China Academy of Engineering Physics	Efficient R&D Paradigm for Novel High-Corrosion-Resistant Uranium Alloys
S5-15	16:30-16:50	李致朋 LI Zhipeng	西北工业大学，Northwestern Polytechnical University	Solid Oxide Fuel Cells: From Materials Research to Industrial Fabrication
S5-16	16:50-17:10	张与之 ZHANG Yuzhi	深势科技，DP Technology	MatMaster: A General-Purpose Scientific Agent for Materials R&D
18:20-19:30		晚餐 Dinner		

2025.11.22 AM				
主持人：边风刚 中国科学院上海高等研究院，张宝 电子科技大学 **Session Chairs:** BIAN Fenggang, Shanghai Advanced Research Institute, Chinese Academy of Sciences; ZHANG Bao, University of Electronic Science and Technology of China				
编号 No.	时间 Time	演讲人 Speaker	单位 Affiliations	报告题目 Presentation Title
S5-17	8:30-8:55	汤慧萍 TANG Huiping	浙大城市学院，Hangzhou City University	A Novel Intelligent Design-Manufacturing Technology for Extremely Lightweight Porous Metallic Materials
S5-18	8:55-9:20	白　冰 BAI Bing	中国原子能科学研究院，China Institute of Atomic Energy	Introducing physical constraints for the design of refractory alloys to the Intelligent R&D of reactor materials
S5-19	9:20-9:45	柳延辉 LIU Yanhui	中国科学院物理研究所，Institute of Physics, Chinese Academy of Sciences	Data-driven & AI-enabled development of metallic glasses
S5-20	9:45-10:10	边风刚 BIAN Fenggang	中国科学院上海高等研究院，Shanghai Advanced Research Institute, Chinese Academy of Sciences	High throughput characterization and AI development of polymer processing based on synchrotron radiation
10:10-10:25		茶 歇 Tea Break		
主持人：柳延辉 中国科学院物理研究所，高克玮 北京科技大学 **Session Chairs: L**IU Yanhui, Institute of Physics, Chinese Academy of Sciences; GAO Kewei, University of Science and Technology Beijing				
S5-21	10:25 -10:55	张志波 ZHANG Zhibo	西南交通大学 Southwest Jiaotong University	人工智能驱动的铝合金铸造与挤压工艺设计及产业化应用（MGE 青年科学家获奖报告）
S5-22	10:50-11:15	高克玮 GAO Kewei	北京科技大学， University of Science and Technology Beijing	Intelligent evaluation technology for corrosion behavior of metal materials
S5-23	11:15-11:40	苏绍华 SU Shaohua	智能制造龙城实验室，Longcheng Laboratory of Intelligent Manufacturing	Application of AI-Driven Multimodal Fusion in Design and Analysis of Powder Metallurgy Materials
S5-24	11:40-12:05	张　霜 ZHANG Shuang	西北有色金属研究院，Northwest Institute for Nonferrous Metal Research	Interfacial structure-dependent mechanical and radiation-resistant behavior of graphene/Al composites

材料基因工程产业发展应用论坛—航空航天材料智能设计及产业化应用
Sumposium F: MGE Technologies and Industrial Application Symposium
(Smart Design and Intelligent Manufacturing of Advanced Materials for Aeronautics and Astronautics)

分论坛召集人： 李金山、向勇、刘哲、王毅、伍芳
Sumposium Organizers: LI Jinshan, XIANG Yong, LIU Zhe, WANG Yi, WU Fang

时间：11 月 21 日全天 Nov 21st　　地点：18 号楼二层 2-8 Room 2-8, 2nd Floor, Building 18

2024.11.21 AM				
主持人：辛社伟 西北有色院钛所，种晓宇 昆明理工大学 **Session Chairs:** XIN Shewei, Northwestern Institute For Non-ferrous Metal Research; CHONG Xiaoyu, Kunming University of Science and Technology				
编号 No.	时间 Time	演讲人 Speaker	单位 Affiliations	报告题目 Presentation Title
S6-01	8:30-8:55	刘向宏 LIU Xianghong	西部超导材料科技股份有限公司 ,Western Superconducting Technologies Co., Ltd	高强高韧钛合金及工程化研究进展
S6-02	8:55-9:15	范群波 FAN Qunbo	北京理工大学 , Beijing Institute of Technology	Research on Titanium Alloy Material Innovation Driven by Data and Knowledge
S6-03	9:15-9:35	张智鑫 ZHANG Zhixin	宝钛集团有限公司 ,Baoti Group Co.,Ltd.	Technological Innovations and Intelligent Equipment Upgrades for Titanium Alloy Plate, Strip, and Foil at Baoti Group
S6-04	9:35-9:55	王皞 WANG Hao	中科院金属所, Institute of Metal Research, Chinese Academy of Sciences	Design of Titanium Alloys Integrating Mechanism and Intelligence
S6-05	9:55-10:10	刘希林 LIU Xilin	洛阳船舶材料研究所 , Luoyang Ship Material Research Institute	Efficient Welding and Intelligent Control Technology for Thick Titanium Alloy Plates
10:10-10:20		茶 歇 Tea Break		

主持人：范群波 北京理工大学， 王皞 中科院金属所 **Session Chairs:** FAN Qunbo, Beijing Institute of Technology; WANG Hao, Institute of Metal Research, Chinese Academy of Sciences				
S6-06	10:20 -10:45	辛社伟 XIN Shewei	西北有色院钛所 Northwestern Institute For Non-ferrous Metal Research	Traditional Design Paradigm and Challenges of Titanium Alloys
S6-07	10:45-11:05	周瑜 ZHOU Yu	重庆两航金属材料有限公司 Ti-MASTER High Performance Alloy Co., Ltd, Chongqing	Research on High-Temperature Titanium Alloy Materials for 550 ° C-650 ℃ and Investment Casting Technology
S6-08	11:05-11:25	种晓宇 CHONG Xiaoyu	昆明理工大学 Kunming University of Science and Technology	A New Paradigm for Noble Metal Material Development Driven by the Synergy of Physical Models and Machine Learning（MGE 青年科学家获奖报告）
S6-09	11:25-11:45	马俊 MA Jun	西北工业大学 Northwestern Polytechnical University	管材 / 型材类构件弯曲成形回弹在线检测与智能控制
S6-10	11:45-12:05	郑国明 ZHENG Guoming	宝鸡钛业股份有限公司 Baoji Titanium industry Co., Ltd	Evolution of Microstructure and Texture of a Near a Titanium Alloy During Forging Bar into Disk
12:05-13:30		午 餐 Lunch		
主持人：王俊杰 西北工业大学，宋江选 西安交通大学 **Session Chairs:** WANG Junjie, Northwestern Polytechnical University; SONG Jiangxuan, Xi'an Jiaotong University				
S6-11	13:30-13:55	苏航 SU Hang	中国钢研科技集团，China Iron & Steel Research Institute Group Co., Ltd.	Collaboration between Materials R&D, Production, Application Data and AI
S6-12	13:55-14:15	谭军 TAN Jun	重庆大学，Chongqing University	Development and Industrial Application of High-Strength, High-Thermal-Conductivity Magnesium Alloy
S6-13	14:15-14:35	苗以升 MIAO Yisheng	北京理工大学，Beijing Institute of Technology	Artificial Intelligence Driven Identification, Characterization, and Data Modeling of Micropore Defects in Aluminum Alloy
S6-14	14:35-14:55	林德烨 LIN Deye	北京科学智能研究院，AI for Science Institute	Introduction to AI for Science Infrastructure Construction and Its Applications in Materials Design
S6-15	14:55-15:15	张帆 ZHANG Fan	西安理工大学，Xi'an University of Technology	On the Application of Mesh-Free Methods and Nonlinear Material Models for Extreme Loading Problems
15:15-15:25		茶 歇 Tea Break		

主持人：苏航 中国钢研科技集团，谭军 重庆大学 **Session Chairs:** SU Hang, China Iron & Steel Research Institute Group Co., Ltd.; TAN Jun, Chongqing University				
S6-16	15:25-15:50	宋江选 SONG Jiangxuan	西安交通大学 Xi'an Jiaotong University	Low-Cost and Intrinsically Safe Aqueous Organic Redox Flow Batteries: From Intelligent Molecular Regulation to Application Demonstration
S6-17	15:50-16:10	王俊杰 WANG Junjie	西北工业大学 Northwestern Polytechnical University	Computation-Guided Design and Creation of Emerging Electride Systems
S6-18	16:10-16:30	鲍路瑶 BAO Luyao	中国科学院兰州化学物理研究所 Lanzhou Institute of Chemical Physics, Chinese Academy of Sciences	Molecular Simulation and AI-Driven Design Methods and Industrial Applications for Lubricant Materials
S6-19	16:30-16:50	杨斌 YANG Bin	沈阳工业大学 Shenyang University of Technology	Multiscale Study and Intelligent Design of Tribological Properties of Waterjet-Modified Recycled Rubber
S6-20	16:50-17:10	张伟伟 ZHANG Weiwei	西北有色金属研究院 ,Northwest Institute For Non-ferrous Metal Research	Integrated Application of Multiscale Computation in the Analysis of Microscopic Mechanisms of High-Entropy Alloys
S6-21	17:10-17:30	左冬冬 ZUO Dongdong	宝鸡钛业有限公司，Baoji Titanium Industry Co., Ltd	Thermophysical Properties and Phase Transformations of Undercooled Zr-Fe-Nb Alloys Investigated by Electrostatic Levitation and Molecular Dynamics Calculation

材料产业智能化发展与应用论坛 — 智赋新能
Symposium G: Intelligent Development and Application of Materials Industry — New Energy

分论坛召集人：向勇、赵旭山、王音、龚奎
Organizers : XIANG Yong, ZHAO Xushan, WANG Yin, GONG Kui

时间：11 月 21 日全天（含圆桌会议）、11 月 22 日上午 Time: Nov21st-22nd (Including roundtable meetings)　　地点：18 号楼二层石榴厅 Pomegranate Hall, 2nd Floor, Building 18

2025.11.21 AM				
主持人：刘杰 湖南大学、江俊 中国科学技术大学 **Session Chairs:** Liu Jie, Hunan University; Jiang Jun, University of Science and Technology of China				
编号 No.	时间 Time	演讲人 Speaker	单位 Affiliations	报告题目 Presentation Title
S7-01	8:30-8:55	江俊 Jiang Jun	中国科学技术大学 University of Science and Technology of China	Building a Global Infrastructure for AI-Driven Innovation
S7-02	8:55-9:15	张云 Zhang Yun	华中科技大学 Huazhong University of Science and Technology	High-Precision 3D Electrode Microstructures Reconstruction and Simulation in Lithium-Ion Batteries
S7-03	9:15-9:35	刘杰 Liu Jie	湖南大学 Hunan University	Atomistic Processing Unit (APU) for Efficient Ab-Initio DFT and MD
S7-04	9:35-9:55	况望望 Kuang Wangwang	鸿之时代 Hongzhishidai Laboratory	Lithium-ion battery design software with multi-scale and multi-physics field coupling
S7-05	9:55-10:15	张禹娜 Zhang Yuna	宁德时代 Contemporary Amperex Technology Co., Ltd.	Intelligent manufacturing platform for organic molecule synthesis
10:15-10:30		茶 歇 Tea Break		

<table>
<tr><th colspan="5">圆桌论坛：“智造未来——AI 自主实验驱动材料产业革命”
Roundtable Forum: "Intelligent Manufacturing of the Future – AI Autonomous Experiment Driven Materials Industry Revolution"
主持人：刘轶 上海大学 Session Chairs: Liu Yi, Shanghai University</th></tr>
<tr><td>开场
Time</td><td>10:30-10:40</td><td colspan="3">嘉宾上台、主持人介绍、嘉宾自我介绍
Introduction</td></tr>
<tr><td rowspan="7">圆桌论坛
Round-table Forum</td><td rowspan="7">10:40-11:40</td><td>江俊
Jiang Jun</td><td>中国科学技术大学
University of Science and Technology of China</td><td rowspan="7">来自学术界、权威信息机构、出版界及产业界的重磅嘉宾，共同打造本次“智造未来——AI 自主实验驱动材料产业革命”圆桌论坛。鸿之微特邀中科大江俊、中科院刘建军等顶尖学术专家，美国化学会 CAS 战略总监、OAE 出版公司 CEO 等资源生态领航者，以及鸿之时代、智化、沃时等产业实践先锋，将围绕“技术突破 - 数据基石 - 应用转化 - 生态共建”四大核心议题展开深度对话！跨学界、产业、资源方的“最强大脑”集结，将深度拆解 AI 自主实验的技术突破、数据密码、落地难题与生态未来！
Authorities from academia, authoritative information institutions, publishing, and industry have come together to create this "Intelligent Manufacturing Future- AI Autonomous Experimentation Driving Materials Industry Revolution" roundtable forum. HZWTech has specially invited top academic experts including Jiang Jun from the USTC of China and Liu Jianjun from the Shanghai Institute of Ceramics, Chinese Academy of Sciences; ecosystem leaders including Director of Strategic Alliances at CAS, a division of American Chemical Society, and the CEO of OAE Publishing Company; as well as industry practice pioneers from Hongzhishidai Laboratory and others. They will engage in in-depth dialogue around four core topics: Technological Breakthroughs, Data Foundation, Application Translation, and Ecosystem Co-construction. This assembly of "strongest minds" spanning academia, industry, and resource sectors will thoroughly analyze the technical breakthroughs, data secrets, implementation challenges, and ecological future of AI autonomous experimentation!</td></tr>
<tr><td>刘建军
Liu Jianjun</td><td>中国科学院上海硅酸盐研究所
Shanghai Institute of Ceramics, Chinese Academy of Sciences</td></tr>
<tr><td>袁琼
Yuan Qiong</td><td>美国化学会 CAS
CAS, a division of American Chemical Society</td></tr>
<tr><td>樊敏
Fan Min</td><td>OAE Publishing Inc.</td></tr>
<tr><td>李希茂
Li Ximao</td><td>鸿之时代
Hongzhishidai Laboratory</td></tr>
<tr><td>夏宁
Xia Ning</td><td>武汉智化
Zhihua Technology, Wuhan</td></tr>
<tr><td>曾琢
Zeng Zuo</td><td>沃时科技
Hours Technology Co., Ltd.</td></tr>
<tr><td>观众提问、总结
Questions and Summary</td><td>11:40-12:00</td><td colspan="3">互动问答、主持人总结、抽奖环节
Interactive Q&A, Host Summary, Lucky Draw</td></tr>
</table>

2025.11.21 PM				
主持人：朱有亮 吉林大学、袁琼 美国化学会 CAS **Session Chairs:** Zhu Youliang, Jilin University; Yuan Qiong, CAS of American Chemical Society				
编号 No.	时间 Time	演讲人 Speaker	单位 Affiliations	报告题目 Presentation Title
S7-06	13:30-13:55	袁琼 Yuan Qiong	美国化学会 CAS CAS, a division of American Chemical Society	Application of AI in Materials Science Research
S7-07	13:55-14:15	文明健 Wen Mingjian	电子科技大学 University of Electronic Science and Technology of China	SEI Formation Pathways Revealed by Chemical Reaction Networks
S7-08	14:15-14:35	朱有亮 Zhu Youliang,	吉林大学 Jilin University	Development and Application of Mesoscale Molecular Simulation Software
S7-09	14:35-14:55	夏宁 Xia Ning	武汉智化 Zhihua Technology, Wuhan	AI + automation empowering the synthesis of material molecules
S7-10	14:55-15:15	段辰儒 Duan Chenru	深度原理 Deep Principle	Generative modeling for designing new chemistry
15:15-15:30		茶歇 Tea break		
主持人：吴桂选 中科院山西煤化所、练成 华东理工大学 **Session Chairs:** Wu Guixuan, Institute of Coal Chemistry, Chinese Academy of Sciences; Lian Cheng, East China University of Science and Technology				
S7-11	15:30-15:55	练成 Lian Cheng	华东理工大学 East China University of Science and Technology	Large-Small Model Synergy Empowering Intelligent Battery Manufacturing
S7-12	15:55-16:15	甘震伟 Gan Zhenwei	天舟上元 SkyShip Information Technology Co., Ltd.	Multidisciplinary Design/Simulation Collaborative System Based Digital
S7-13	16:15-16:35	吴桂选 Wu Guixuan	中科院山西煤化所 Institute of Coal Chemistry, Chinese Academy of Sciences	Promising combination of thermodynamic database and machine learning in predicting slag properties
S7-14	16:35-16:55	杨超 Yang Chao	上海交通大学 Shanghai Jiao Tong University	Intelligent Design of Sustainable Ductile Iron and Its Casting Process Based on Deep Active Learning
S7-15	16:55-17:15	何雪萦 He Leo	玄刃科技 Shanghai Xuanren Intelligent Technology Co., Ltd.	AI-Driven High Throughput Automated Prediction of Optimal Electrolyte Formulations

2025.11.22 AM				
主持人：邢辉 西北工业大学 、马飘 苏州材科源图 **Session Chairs:** Xing Hui, Northwestern Polytechnical University; Ma Piao, Suzhou Matsource AI Technology Co., Ltd.				
编号 No.	时间 Time	演讲人 Speaker	单位 Affiliations	报告题目 Presentation Title
S7-16	8:30-8:50	马飘 Ma Piao	苏州材科源图 Suzhou Matsource AI Technology Co., Ltd.	Practice and Insights into AI-Driven Materials R&D: “Human Effort” Determines Artificial Intelligence
S7-17	8:50-9:10	孙殿明 Sun Dianming	合肥长鑫 ChangXin Memory Technologies, Inc.	Unveiling Key Properties of Photoresist—Predicting the pKa Indicator Using Graph Neural Networks
S7-18	9:10-9:30	邢辉 Xing Hui	西北工业大学 Northwestern Polytechnical University	Diffusive Interface Modeling of Microstructure Formation
S7-19	9:30-9:50	曾琢 Zeng Zuo	沃时科技 Hours Technology Co., Ltd.	AI Robo-Chemist Empowers Material Process Development and Formulation Exploration
S7-20	9:50-10:10	粟海斌 Su Haibin	方心科技 Funsine Technology Co., Ltd.	Hard-Soft-Core Integrated Collaborative Computing: Reshaping New Efficacy in Materials R&D
10:10-10:25		茶 歇 Tea Break		
主持人：吴志彬 中南大学、袁玉峰 西安超算 **Session Chairs:** Wu Zhibin, Central South University; Yuan Yufeng, Supercomputing Center in Xi'an				
S7-21	10:25-10:45	施荣沛 Shi Rongpei	哈尔滨工业大学 Harbin Institute of Technology	Harnessing Deep Learning to Forecast Materials Evolution and Performance
S7-22	10:45-11:05	刘家朋 Liu Jiapeng	汇像科技 HuiXiang Intelligent Technology (Shanghai) Co., Ltd	AI Robot Scientists Accelerate the Intelligent Transformation of Materials Research Labs
S7-23	11:05-11:25	袁玉峰 Yuan Yufeng	西安超算 National Supercomputing Center in Xi'an	Ushering in a New Paradigm for Computational Materials Science Based on the Super Computing Network
S7-24	11:25-11:45	吴志彬 Wu Zhibin	中南大学 Central South University	Design and Manufacture of Li Composite Anode
S7-25	11:45-12:05	王晓旭 Wang Xiaoxu	深势科技 Shenshi Technology Co., Ltd.	Autonomous Discovery Intelligence System—Driving High-Quality Battery Material Innovation, R&D, and Industrial Upgrade

材料基因工程与智能科学“一带一路”国际分论坛
Symposium H: “Belt and Road” International Symposium forMaterials Genome Engineering & Intelligent Science

分论坛召集人：王毅、张达威、王洪强、刘哲
Symposium Chairs: WANG Yi, ZHANG Dawei, WANG Hongqiang, LIU Zhe

时间：11 月 21 日 全天 November 21st, Full Day　　地点：会议中心一层西安厅 Xi'an Hall, 1st Floor, Conference Center

2025.11.21 AM				
主持人 Session Chairs: Qinghua Zhao Northwestern Polytechnical University, China; Fei Xu Northwestern Polytechnical University, China				
编号 No.	时间 Time	演讲人 Speaker	单位 Affiliations	报告题目 Presentation Title
	08:30 - 08:45	Opening Remarks		
S8-01	08:45 - 09:00	Jiang Donglin	National University of Singapore, Singapore	Design, Synthesis, and Applications of Two Dimensional Covalent Organic Frameworks
S8-02	09:00 - 09:15	Fei Xu	Northwestern Polytechnical University, China	Molecular Design and Interface Regulation of Anode Materials for Sodium Batteries
S8-03	09:15 - 09:30	Vladislav A. Blatov	Samara State Technical University, Russia	Methods and tools for high-throughput analysis of big data on crystal structures
S8-04	09:30 - 09:45	Yerzhan Mukhametkarimov	Al-Farabi Kazakh National University, Kazakhstan	Annealing-induced structural evolution in amorphous Indium Selenide thin films
S8-05	09:45 - 10:00	Aleksei Meshkov	ITMO University, Russia	Laboratory automation – the use of robotic systems in chemical laboratories
10:00 - 10:15		茶歇 Tea & Coffee Break		

2025.11.22 AM				
主持人 Session Chairs: Hongqiang Wang Northwestern Polytechnical University, China, Yerzhan Mukhametkarimov Al-Farabi Kazakh National University, Kazakhstan				
编号 No.	时间 Time	演讲人 Speaker	单位 Affiliations	报告题目 Presentation Title
S8-06	10:15 - 10:30	Lei Zhang	University of Science and Technology Beijing, China	The construction of the National Materials Big Data Center propels the development of "AI + Materials"
S8-07	10:30 - 10:45	Ayimkul Markhabayeva	Al-Farabi Kazakh National University, Kazakhstan	Semiconductor Heterostructures and Transition Metal Oxides for Solar Water Splitting
S8-08	10:45 - 11:00	Anton A. Muravev	ITMO University, Russia	From Music in Water Droplets to Robots in Research Laboratories: How Information Processing Shapes the Future of Chemistry
S8-09	11:00 - 11:15	Nguyen Thanh Tung	Vietnam Academy of Science and Technology, Vietnam	Development of advanced materials for hydrogen energy applications and a transition from traditional to autonomous laboratory
S8-10	11:15 - 11:30	Viktor Timoshenko	Lomonosov Moscow State University, Russia	Tailoring Semiconductor and Plasmonic Nanomaterials for Biophotonics, Biomedicine and Molecular Sensorics
S8-11	11:30 - 11:45	Qinghua Zhao	Northwestern Polytechnical University, China	Two dimensional InSe and Devices
S8-12	11:45 - 12:00	Worapong Sawangsri	Kasetsart University, Thailand	Evaluation of Cell Viability and Machining Performance of Biocompatible ZrO2 and SS316L tools in Bone Milling Applications

2025.11.21 PM				
主持人 Session Chairs： Xuqing Liu Northwestern Polytechnical University, China, Anton A. Muravev (ITMO University, Russia)				
编号 No.	时间 Time	演讲人 Speaker	单位 Affiliations	报告题目 Presentation Title
S8-13	13:30 - 13:45	Bowei Zhang	University of Science and Technology Beijing, China	Intelligent technologies and platform for corrosion protection research
S8-14	13:45 - 14:00	Fei Yang	University of Waikato, New Zealand	Advance the understanding of heat transfer behaviours in Copper/diamond composites
S8-15	14:00 - 14:15	Gauhar Mussabek	Al-Farabi Kazakh National University, Kazakhstan	Silicon Nanostructures with Controlled Reactivity for Enhanced Hydrogen Evolution
S8-16	14:15 - 14:30	Nattasamon Petchsang	Kasetsart University, Thailand	Colloidal metal and semiconductor nanowire products
S8-17	14:30 - 14:45	Vladislav Kudryahov	D.V. Sokolsky Institute of Fuel, Catalysis and Electrochemistry, Kazakhstan	Coupling Cuprous Oxide with Upconversion Materials: A Holistic Approach to Efficient Solar Water Splitting
S8-18	14:45 - 15:00	Adisak Boonchun	Kasetsart University, Thailand	Machine Learning Force Fields Enable Fast and Accurate Prediction of Lattice Thermal Conductivity in Two-Dimensional MXenes
S8-19	15:00 - 15:15	Yufan Zhao	Northwestern Polytechnical University, China	Lattice Genome Framework for Regionally Tailored Component-Level Multi-Objective Design in Additive Manufacturing
15:15-15:30		茶歇 Tea break		

主持人 Session Chairs: Junjie Wang (Northwestern Polytechnical University, China), Yufan Zhao (Northwestern Polytechnical University, China)				
编号 No.	时间 Time	演讲人 Speaker	单位 Affiliations	报告题目 Presentation Title
S8-20	15:30 - 15:45	Lei Shen	National University of Singapore, Singapore	Screening 2D bilayer structures for photocatalytic and ferroelectric applications using materials genome and high-throughput DFT calculations
S8-21	15:45 - 16:00	Xuqing Liu	Northwestern Polytechnical University, China	Interface-Driven Molecular Engineering for High-Performance Functional Fibres
S8-22	16:00 - 16:15	Yelizaveta Morkhova	Samara State Technical University, Russia	High-throughput computational identification of promising solid-state ionic conductors
S8-23	16:15 - 16:30	Anchasa Pramuanjaroenkij	Kasetsart University, Thailand	The Capability Study of Practical Working Fluids in the Desktop-CPU Cooling System
S8-24	16:30 - 16:45	Yakun Zhu	University of Science and Technology Beijing, China	Hydrogen in disordered oxides: connecting local chemistry and structure through accelerated exploration
S8-25	16:45 - 17:00	Dil Faraz Khan	University of Science and Technology Bannu, Pakistan	Study on Innovation and Challenges for the Material Genome Initiative in Pakistani Universities
S8-26	17:00 - 17:15	Siradech Surit	Kasetsart University, Thailand	Strength-Constrained, Cost-Capped Selection of Structural Materials for Embodied-Carbon Reduction: A Post-hoc XAI Approach
S8-27	17:15 - 17:30	Long Kong	Northwestern Polytechnical University, China	Electrolytes and interphases in low temperature lithium batteries

《材料基因工程前沿（英文）》学术论坛
Symposium I: Materials Genome Engineering Advances Academic Forum

分论坛召集人：李卫东
Symposium Chair: LI Weidong

时间：11 月 22 日 全天 November 22nd, Full Day　　地点：18 号楼二层 2-8 Room 2-8, 2nd Floor, Building 18

2025.11.22 AM				
主持人 Session Chair: LI Weidong University of Science and Technology Beijing				
编号 No.	时间 Time	演讲人 Speaker	单位 Affiliations	报告题目 Presentation Title
S9-01	8:30-8:55	刘悦 LIU Yue	上海大学 Shanghai University	Large Language Models Empowering Structure-Property Relationship Research in Materials Science
S9-02	8:55-9:20	Bao Zeqing	University of Toronto	From Data to Formulation: Machine Learning and Automation for Drug Formulation
S9-03	9:20-9:40	刘轶 LIU Yi	上海大学 Shanghai University	High-throughput intelligent design of Zr alloys for nuclear power applications
S9-04	9:40-10:00	文明健 Wen Mingjian	电子科技大学 University of Electronic Science and Technology of China	Recent Development of the Materials Project
10:00-10:15		茶 歇 Tea Break		
主持人 Session Chair: DONG Zhihua Chongqing University				
S2-05	10:15 -10:35	吴渊 YUAN WU	北京科技大学 University of Science and Technology Beijing	Exploring the Inversion of Performance Relationships in Multi-Principal Element Disordered Alloys Using Machine Learning
S9-06	10:35-10:55	董志华 DONG Zhihua	重庆大学 Chongqing University	Invariant Plastic Deformation Mechanism in Paramagnetic Nickel-Iron Alloys
S9-07	10:55-11:15	丁青青 DING Qingqing	浙江大学 Zhejiang University	Application of In-situ Electron Microscopy Technology in the Development of Structural Alloys
S9-08	11:15-11:35	弓站朋 GONG Zhanpeng	西北有色金属研究院 Northwest Institute for Non-ferrous Metal Research	Strain Engineering in Ferroelectric Phase Transition and Polarization Domain Structure of Two-Dimensional PbTe Materials
S9-09	11:35-11:50	马娟娟 MA Juanjuan	OAE Publishing Inc.	Advancing Materials Innovation: A Focus on Materials Genome Engineering and Smart Materials in OAE Journals
S9-10	11:50-12:05	曹斌 BIN CAO	The Hong Kong University of Science and Technology	Intelligent Structure Identification of Powder X-ray Diffraction Patterns
		午 餐 Lunch		

2025.11.22 PM				
主持人 Session Chair: SHI Rongpei Harbin Institute of Technology				
编号 No.	时间 Time	演讲人 Speaker	单位 Affiliations	报告题目 Presentation Title
S9-11	13:30-13:50	钟志诚 ZHONG Zhicheng	中国科学技术大学 University of Science and Technology of China	AI for Materials Science
S9-12	13:50-14:10	杨小渝 YANG Xiaoyu	中国科学院计算机网络信息中心 Computer Network Information Center	AI for Materials Research in Practice: From Data to Intelligence
S9-13	14:10-14:30	赵雷 ZHAO Lei	钢铁集团纳克公司 The NCS Testing Technology Co., Ltd.	High-throughput synthesis and characterizations of multi-component FeCrNiAlTi alloys
S9-14	14:30-14:50	洪政凯 HONG Zhengkai	西北有色金属研究院 Northwest Institute for Non-ferrous Metal Research	The phase field simulation for the origin of relaxor formation and its superior properties
15:10-16:00		茶 歇 Tea Break		
16:00-18:00		2025 年《材料基因工程前沿（英文）》期刊编委研讨会 2025 Editorial Board Symposium: Materials Genome Engineering Advances		