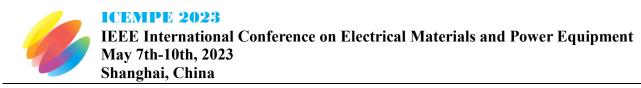
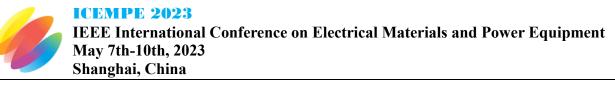


# TECHNICAL PROGRAM May 7th-10th, 2023 (Draft V1.0)



# **ICEMPE 2019 Program Schedule**

Time		7-May-23	8-May-23		9-May-23			10-May-23			
08:00-08:30			Registration		Re	egistration				/	
08:30-08:45			Opening Ceremony (NO.301+302, 3rd F)								
08:45-09:40	, ]		Opening Ceremony (NO.301+302, 3rd F)  Group Photo and Coffee Break	Performance of Insulating  Material	Oral Session 4: Detection and Assessment (NO.302, 3rd F)	/		Discharge and	Oral Session 6: Modeling and	/	/
09:40-10:00 10:00-10:10		/									
10:10-12:30			Oral Session 1: New Issues & New Theories (NO.301+302, 3rd F)			Poster Session 1: Equipment Aging and Assessment: Transformer and Cable (Gallery hall, 3rd F)	Poster Session 2: Equipment Aging and Assessment: Insulator and Others (Gallery hall, 3rd F)	0 0	Simulations (NO.301, 3rd F)	Poster Session 3: Detection and Assessment (Gallery hall, 3rd F)	Poster Session 4: Modeling and Simulations(Gallery hall, 3rd F)
12:30-14:00	Registration	Lunch (NO.305, 3rd F)									
14:00-16:30	)	CEIDP Technical Program Committee Meeting (NO. 186, 1th F)	Oral Session 2 : Performance of  Insulating Materials  (NO.301+302, 3rd F)	,	Technical Visit (Assembly Point: Hotel Lobby at 14:00)				nergy Storage and faterials 302, 3rd F)	Poster Session 5: Performance of Insulating Material: Interface and charge (Gallery hall, 3rd F)	Poster Session 6: Performance of Insulating Material: Dielectric Properties and Aging (Gallery hall, 3rd F)
16:30-17:00					(Assembly Folia	Hotel 2000y at 14.00)			Excellent Stude	ent Paper Awards and Closing (NO.301+302, 3rd F)	Ceremony
17:00-18:30											
18:30-20:00						Dinner (NO.30	5, 3rd F)				
20:00-22:00		China Engineering Dielectric Committee Meeting (NO. 186, 1th F)	★Coffee Break: 10:15-10:25 and 15:35-15:45								



	Program of ICEMPE 2023 V1.0	
Registration		
Sunday, Ma	ny 7, 2023	
8:00-18:00	Registration Buckingham Grand Hotel, Shanghai)	
18:00-20:00	Welcome Reception (NO.305 3rd F)	
Oral Se	ssions	
Monday, M	ay 8, 2023	
Opening Cer Venue: NO.3	emony 01+302, 3rd F	
08:30-08:35	Chairman of ICEMPE 2023	
08:35-08:40	Deptuy Secretary General of CES	
08:40-08:45	Vice President of SJTU	
Chen Jidan A	Award & Memorial Lecture	
Venue: NO.3	01+302, 3rd F	
08:45-09:00	Brief Introduction to Prof. Chen Jidan & Prospective in Dielectric Research	
	Chen Jidan Memorial Lecture	
09:00-09:40	Space Charge Measurement Techniques for Practical Insulation Systems	
	Naohiro Hozumi (Toyohashi University of Technology, Japan)	
09:40-10:10	Group Photo and Coffee Break	
Oral Session	1: New Issues & New Theories	
Venue: NO.3	01+302, 3rd F	
10:15-10:40	Flexible Low-frequency AC Transmission	
Invited	Weijiang Chen (State Grid Corporation of China)	
10:40-11:05	Offshore Wind Power Friendly Integration Solution and Key Electrical Equipment Innovation	
Invited	Jian Ban (China Electrical Equipment Group Science and Technology Research Institute Co., LTD, , China)	
11:05-11:30	Radiation Effects on Degradation of Polymeric Cable Insulation from Various Viewpoints	
Invited	Yoshimichi Ohki (Waseda University, Japan)	
11:30-11:55	Organic Molecular Grafting Modification based Crosslinked Polyethylene for HVDC Cable Insulation	
Invited	Hong Zhao(Harbin University of Science and Technology, China)	
11:55-12:20	High Performance Lithium-ion Capacitors: Fabrication and Applications	
Invited	Yanwei Ma (Institute of Electrical Engineering, Chinese Academy of Sciences, China)	
12:15-14:00	lunch (NO.305 3rd F)	
Oral Session	2: Performance of Insulating Materials	
Venue: NO.3	01+302, 3rd F	
14:00-14:25	Insulation Problems of HVDC Cable and GIL/GIS in Electricity Transmission	
Invited	Boxue Du (Tianjin University, China)	



	Shanghai, China
14:25-14:50	Health Management Technology of High Speed Train Traction Power Supply Equipment
Invited	Guangning Wu (Southwest Jiaotong University)
14:50-15:15	Understanding the Abnormal Ageing Performance of ZnO Ceramics: Phenomena and Insights
Invited	Jianying Li (Xi'an Jiaotong University, China)
15:15-15:40	Charge Trapping and Transport in Nanodielectrics
Invited	George Chen (University of Southampton, UK)
15:40-16:05	Novel Electrochemical Energy Storage Materials & Technologies
Invited	Kai Jiang (Huazhong University of Science and Technology, China)
16:05-16:15	Coffee Break
16:15-16:40	Correlations between Morphology and Insulating Properties of Bi-aixal Oriented Polypropylene Film
Invited	Wenfeng Liu (Xi'an Jiaotong University, China)
16:40-17:05	Sustainable Application of Dynamic Polyimide Dielectrics
Invited	Junwei Zha (University of Science and Technology Beijing, China)
17:05-17:30	Plasma Modification Technology for Optimizing the Performance of Electrical Materials
Invited	Cheng Zhang (Institute of Electrical Engineering, Chinese Academy of Sciences, China)
17:30-17:55	A Soft Fault Location Method for Power Cable based on AR Model
Invited	Kai Zhou (Sichuan University, China)
15.55.10.50	Study on Energy Storage Characteristics of Layered Composite Dielectric with Alternating Stacking of Insulation
17:55-18:20	Layer and Polarization Layer
Invited	Qingguo Chi (Harbin University of Science and Technology, China)
19:00-21:00	Dinner (NO.305 3rd F)
Tuesday, M	lav 9. 2023
	3: Performance of Insulating Material
Venue: NO.3	
08:30-08:50	Effect of Gamma-Ray Irradiation on Dielectric Properties of Polypropylene as Cable Insulation
Invited	Yu Gao (Tianjin University, China)
08:50-09:10	Dielectric Response Characteristics of Fluorinert Liquid-Impregnated Paper Insulation
Invited	Weiwang Wang (Xi'an Jiaotong University, China)
09:10-09:30	Influence of Cross-linking Characteristics of DC Cable Insulation on DC Performance
Invited	Wenpeng Li (Xi'an Jiaotong University, China)
09:30-09:50	A Method for Tuning the Dielectric Properties of Filled Composites
Invited	Zikui Shen (South China University of Technology, China)
	Improvement of the Electrical Properties of Silicone Rubber Doped with Nano-zirconia Grafted by Voltage
09:50-10:05	Stabilizer
	Xiaoqian Zhu (Tsinghua University, China)
	Improved Surface Electrical Strength of EPDM Samples by Surface-grafted Voltage Stabilizer
10:05-10:20	Chunyang Li (Harbin University of Science and Technology, China)
	The Dielectric Properties of Polypropylene Grafting with Methyl Methacrylate
10:20-10:35	Shangshi Huang (Tsinghua University, China)
10:35-10:45	Coffee Break
10.55-10.45	Culte Dicar
10.33-10.43	
10:45-11:00	The Vibration Analysis of HVDC Converter Module Based on Experiment under Working Conditions  Qinwei He (Global energy interconnection research institute europe gmbh, China)



	Snangnai, Cnina
11:00-11:15	Deep Understanding of Hydrogen Abstraction Reaction in Liquid Silicone Rubber Under Ultraviolet Radiation
	Ying Lin (Hefei University of Technology, China)
11:15-11:30	Thermally Conductive Radiative Cooling Polymer Nanocomposite for Outdoor Thermal Management  Pengli Li (Shanghai Jiao Tong University, China)
	Effect of Antioxidant on Crystalline Structure of Cross-linkable Polyethylene Materials for Power Cables
11:30-11:45	Yifan Wu (Xi'an Jiaotong University, China)
	Study on Charge Characteristics of Silicone Rubber After Swelling Different Silicone Grease
11:45-12:00	Xiaodong Li (Tsinghua University, China)
	Surface Repairing of Damaged EPDM Insualtion by Ar/Styrene Plasma Treatment
12:00-12:15	Xi Zhu (Nanjing Tech University)
	Effect of Plasma on Hydrophobicity Migration of Contaminated HTV Silicone Rubber
12:15-12:30	Meng Zhou (Tsinghua University, China)
	4: Detection and Assessment
Venue: NO.3	802, 3rd F
08:30-08:50	Space Charge Characteristics of XLPE at Different Temperatures for Long-time Vulcanization Process
Invited	Xiangrong Chen (Zhejiang University, China)
08:50-09:10	Corona Resistance Characteristics of Polyimide Films modified by Nano-Al2O3 in LN
Invited	Daosheng Liu (Jiangxi University of Science and Technology, China)
09:10-09:30	Forming Process of Cellulose Impurity Bridges in Oil-Paper Insulation under DC Voltage
Invited	Yuan Li (Sichuan University, China)
	Experimental Research on Visual UHF Positioning Technology of Space Discharge Sources Based on Electrical
09:30-09:45	Transformer
	Tingyu Gao (China Electric Power Research Institute, China)
00 45 10 00	Research on Ultrasonic Detection Method for Partial Discharge of Dry Type Transformer
09:45-10:00	Yixin Li (Xi'an Jiaotong University, China)
10.00 10.15	Acoustic Monitoring Method for Operating Condition of Contaminated Insulator based on Fuzzy Reasoning
10:00-10:15	Feng Zhang (Changsha University of Science & Technology, China)
10 17 10 20	Aging Evaluation of Silicone Rubber Composite Insulators with Long-term Operation in the Outdoor
10:15-10:30	Lv Li (Institute of Electrical Engineering, Chinese Academy of Sciences, China)
10:30-10:40	Coffee Break
10 40 10 55	Study on Aging Diagnosis of Epoxy Resin
10:40-10:55	Jianyu Lang (Xi'an Jiaotong University, China)
	Analysis on Vibration and Noise Characteristics of Epoxy Resin Dry-Type Transformer and Noise Reduction
10:55-11:10	Measures
	Fangchi Qiu (Shenzhen Power Supply Co., Ltd., China)
	Study on the Diffusion Behavior of Moisture in New and Aged Oil-paper Insulation by Terahertz Imaging
11:10-11:25	Technology
	Yuxin He (Chongqing University, China)
	The Measurement of the Interface Thermal Resistance of Micron-Thin Film by Dielectric Transient Current
11:25-11:40	Method
	Shijie Chen (Tongji University, China)
11 40 11 55	Arc Jet Flow Characterized by High-speed Shadow Imaging Technique
11:40-11:55	Sude Liu (Nanjing University of Aeronautics and Astronautics, China)



	Shanghai, China
	A Low Background Noise Distributed Detection Method for Cable Partial Discharge Based on Ultraweak Fiber
11:55-12:10	Bragg Grating Array
	Tengjun Guo (North China Electric Power University, China)
10.10 10.05	A Novel PD Detection Method of Inverter-fed Motor Shell as Slot Antenna
12:10-12:25	Shijin Ma (Sichuan University, China)
14:00-17:00	Technical Visit (Assembly Point: Hotel Lobby at 14:00)
18:00-20:00	Dinner (NO.305 3rd F)
Wednesday	r, May 10, 2023
Oral Session	5: Discharge and Aging
Venue: NO.3	01, 3rd F
08:30-08:50	Breakdown in Insulation Layer of 10 kV Overhead Insulated Conductor
Invited	Yuesheng Zheng (Fuzhou University, China)
00.50.00.10	Effect of the Rise Edge of the Pulse Voltage on Initiation and Growth Characteristics of the Electrical Tree of the
08:50-09:10	Silicone Rubber
Invited	Dongxin He (Shandong University, China)
09:10-09:30	Aromatic Compounds Affecting Electrical Treeing and Partial Discharge Properties of XLPE Insulation under
	Cyclic Thermal Loading for HVAC Cables
Invited	Zhonglei Li (Tianjin University, China)
09:30-09:45	Discharges in Wind Turbine
09:30-09:43	Xiangdong Xu (Chalmers university of technology, Sweden)
	Breakdown Characteristics of Flowing Transformer Oil Contaminated with Cellulose Particles Under Slightly
09:45-10:00	Non-uniform DC Field
	Suyi Xia (Wuhan University, China)
10:00-10:15	Breakdown Analysis of HVDC Cable Accessories during R&D Tests
10.00-10.13	Yi Luo (Global Energy Interconnection Research Institute Europe GmbH, Germany)
10:15-10:30	Analysis of Thermal Aging Characteristics of Silicone Gel used for IGBT Packaging
10.13-10.30	Rirong Chen (Wuhan University, China)
10:30-10:40	Coffee Break
10:40-10:55	The Influence of the dielectric effect on the pulse sequence development of negative corona
10.40-10.55	Lu Fan (Shanghai Jiao Tong University, China)
10:55-11:10	Study on icing distribution characteristics of transmission lines at heavy ice area and its influence on jump height
10.55-11.10	Guizao Huang (Southwest Jiaotong University, China)
	Thermal Characteristics of the Polluted Silicone Rubber During the Formation Process of Dry Band and Arc
11:10-11:25	Discharge
	Jikai Bi (South China University of Technology, China)
11:25-11:40	Effects of Mold on the Flashover Characteristics of Silicone Rubber Insulators
11.23-11.40	Shifang Yang (North China Electric Power University, China)
11:40-11:55	Effect of Rise Time on Partial Discharge and Aging Characteristics of Polyimide under Square Wave Voltage
11.40-11.33	Xinyang Zhu (Shanghai Jiao Tong University, China)
11:55-12:10	Analyzing the Arcs Development of 10 kV XLPE Power Cable
	Guangya Zhu (Sichuan University, China)



	Shanghai, China		
12:10-12:25	Investigation of Non-Local Thermodynamic Equilibrium Effects of Medium Voltage AC Air Arc		
12.10-12.23	Tong Zhou (Chongqing University, China)		
Oral Session 6: Modeling and Simulations			
Venue: NO.30	02, 3rd F		
08:30-08:50	External Insulation Design for EMUs' Insulators at High Altitude with Non-uniform Distributed Pollution		
Invited	Jixing Sun (Beijing Jiaotong University, China)		
08:50-09:10	Aging Mechanism and Characterization of EPR Cable Under Nonlinear Torsion Effect		
Invited	Shuaibing Li (Lanzhou Jiaotong University, China)		
09:10-09:30	Electrical Stress Simulation of DC Cable in ±100 kV VSC-HVDC System		
Invited	Haitian Wang (Global Energy Interconnection Research Institute Europe GmbH, Germany)		
	A CNN-based Image Reconstruction Scheme for Complex-valued Multi-frequency Electrical Capacitance		
09:30-09:45	Tomography		
	Yifei Xiong (Shanghai University of Electric Power, China)		
09:45-10:00	Electrothermal Coupling Filed Calculation of 200 kV Adaptive Bushing		
09.43-10.00	Zhiwen Huang (Tsinghua University, China)		
10:00-10:15	Analysis of Interaction between Decomposition Products of C4F7N/CO2 Mixture and Epoxy Resin		
10:00-10:13	Geng Chen (North China Electric Power University, China)		
10:15-10:30	Simulation Characteristics of Liquid Metal flow Limiters with Different Number of Pores		
10.13-10.30	Aozheng Wang (Southwest Jiaotong University, China)		
10:30-10:40	Coffee Break		
10:40-10:55	Simulation Study on the Impact of Fog Density on Effectiveness of Infrared Thermography		
10.40-10.33	Zhuojun Jiang (Tsinghua University, SIGS, China)		
	Study of AC Resistance Ralculation in Equivalent Networks of Transformer Windings and Frequency Response		
10:55-11:10	Considering Proximity Effect		
	Longfei Ma (Shandong University, China)		
11:10-11:25	Study on the Influence of Lightning Current Waveform on the Impulse Characteristics of Grounding Grid		
11.10-11.23	Qiheng Ma (Southwest Jiaotong University, China)		
11:25-11:40	Thermoelectric Coupling Simulation of High-Voltage Switchgear Based on RBF Surrogate Model		
11.23 11.40	Jiaqi Huang (Tongji University, China)		
11:40-11:55	Preliminary Degradation of SF6 on Mixed Termination Ti2CTx: A DFT Study		
11.10 11.33	Xinnuo Guo (Wuhan University, China)		
	Modeling and Testing of Thermoelectric Generator Based Energy Harvester for Powering Sensor Node Used in		
11:55-12:10	Condition Monitoring System for HVDC Converter		
	Tian Lan (Global Energy Interconnection Research Institute Europe GmbH, Germany)		
12:10-12:25	Stress Simulation Research of Basin-type Insulator for Gas Insulated Switchgear under Hydrostatic Test		
12.110 12.120	Wenhao Gao (Shandong University, China)		
Oral Session	7: Energy Storage and Mew Materials		
Venue: NO.3	01, 302, 3rd F		
14:00-14:20	Progress in the Development of a Fully Environmentally Friendly DC Thermoplastic Extruded Insulation Cable		
Invited	System in China		
2	Mingyu Zhou (Global Energy Interconnection Research Institute Europe GmbH, Germany)		



14:20-14:40 Invited	Significant improvement in dielectric properties and energy density of polypropylene films based on surface			
	modification			
Ilivited	Meng Xiao (Tianjin University, China)			
14:40-15:00	Transition from non-Arrhenius to Arrhenius ageing of ZnO ceramics			
Invited	Kangning Wu (Xi'an Jiaotong University, China)			
15:00-15:20	High-Temperature Dielectric Energy Storage Performance of MgO/PEI nanocomposites			
Invited	Tiandong Zhang (Harbin University of Science and Technology, China)			
	Poly (arylene sulfide sulfone) with Excellent Dielectric and Energy Storage Properties for High-temperature			
15:20-15:35	Capacitor Applications			
	Mingsheng Zheng (University of Science and Technology Beijing, China)			
15:35-15:45	Coffee Break			
15:45-16:00	A Superhydrophobic and Electrical Insulating Film by 3D Printing			
15:45-16:00	Peng Wang (North China Electric Power University, China)			
16:00-16:15	Preparation of Graphene Loaded Cobalt Catalyst and its Oxygen Evolution Performance			
10.00-10.13	Wenkai He (Chongqing University, China)			
	Trapezoidal Polyphenylsilsesquioxane Modified Insulating Paper Cellulose with High Mechanical Performance			
16:15-16:30	and Thermal Stability			
	Zhenglin Zeng (Southwest University, China)			
16:30-17:00	Excellent Student Paper Awards and Closing Ceremony			
10.30-17.00	Yi Yin (Shanghai Jiao Tong University, China)			
18:00-20:00	Dinner (NO.305 3rd F)			



#### Shanghai, China **Poster Sessions Poster Session 1: Equipment Aging and Assessment: Transformer and Cable** Tuesday, May 9, 2023 10:00 - 12:30 Venue: Gallery hall, 3rd F Effects of Oil Filtration Film Types and Superhydrophobic Modification on the Moisture Removal Characteristics of Transformer Oil P1-01-A Zenghui Zhang (Fujian Agriculture and Forestry University, China), Yunxiao Zhang, Tianfeng Zhang, Zhengnan Chi, Wenxin Lin (Fuzhou University, China), Tao Lin (Super High Voltage Branch of State Grid Fujian Electric Power Co., Ltd., China) Study on the Effect of Amino-modified SiO2 Nanoparticles on the Diffusion of Water Molecules in Natural P1-02-A Ester Oil-paper Insulation Yingrui Wu, Zhenglin Zeng, Chao Tang (Southwest University, China) Identification of Aging Status of Insulating Paper Based on BP Neural Network P1-03-A Boxue Du, Yongping Hou, Xiaoxiao Kong, Chong Zhang, Fan Li (Tianjin University, China), Jing Mu (State Grid Jibei Electric Power Company Limited Management Training Center, China) Analysis of Electromagnetic Transient Process Under Lightning Impulse Voltage for Silicone Rubber Cast Dry-type Transformer P1-04-A Xiaohui Chen, Xiaoxiao Kong (Tianjin University, China), Qiang Fu (Electric Power Research Institute of Guangdong Power Grid Co., Ltd., China), Yongping Hou, Chong Zhang, Boxue Du (Tianjin University, China) Aging State Evaluation of Transformer Oil-paper Insulation Based on PDC Asymmetric Current Mingze Zhang, Shengjie Lei, Yilin Liang (Harbin University of Science and Technology, China), Heqian P1-05-A Liu (Electric Power Research Institute State Grid Heilongjiang Electric Power Company Limited, China), Yunbo Shi, Ji Liu (Harbin University of Science and Technology, China) Study on the photoacoustic spectrum characteristics of CO in transformer oil Qingming Lin, Xiaocun Wang, Tengfei Li (State Grid Shanghai Electric Power Company, China), Zhou P1-06-A Liping (Shanghai Pashope Electrical Science&Techonology CO.,Ltd., China) and Wenhui Zhang (Shanghai Hengnengtai Enterprise Management CO., Ltd., China) An External Fiber Grating Sensor used for Measurement of Interface Pressure between Cable and Accessory at P1-07-A **High Temperature** Yanding Wang, Di Zheng, Xia Wang (Xi'an JiaoTong University, China) Comparison of Calculation Methods for the Power Cable Distributed Resistance over a Wide Frequency Range Xuefeng Zhao (Electric Power Research Institute of State Grid Shaanxi Electric Power Company Limited, P1-08-A China), Chong Wang, Tao Lin (State Grid Shaanxi Electric Power Company Limited, China), Haofei Sun, Wei Duan, Lu Pu (Electric Power Research Institute of State Grid Shaanxi Electric Power Company Limited, China), Gangduo Feng, Yu Tian (Xi'an University of Technology, China) Study on the Transfer Impedance of Power Cable Straight Joints P1-09-A Jian Gao (Electric Power Research Institute of State Grid Shaanxi Electric Power Company Limited, China),

Chong Wang (State Grid Shaanxi Electric Power Company Limited, China), Xuefeng Zhao, Haofei Sun, Lu



# IEEE International Conference on Electrical Materials and Power Equipment May 7th-10th, 2023

Shanghai, China

	Shanghai, China
Poster	Sessions
	Pu (Electric Power Research Institute of State Grid Shaanxi Electric Power Company Limited, China),
	Jianfeng Liang, Hanmeng Wang, Gangduo Feng (Xi'an University of Technology, China)
P1-10-A	Performance Tests on Temperature-Press Composite MEMS Sensor for Transformer Oil
-	Yajun Jia, Chang Shen, Zhijian Jin, Junjie Jiang (Shanghai Jiao Tong University, China)
	Electric Field Strength Influence on Frequency Domain Spectroscopy Characteristics of Transformer Oil-
	Paper Insulation
P1-11-A	Zhengqing Zhou, Chuanxian Luo, Shengnan Hu, Lin Cheng (Nanjing NARI Group Corp., China), Zhaoliang
	Gu (State Grid Shandong Electric Power Research Institute, China), Zhang Jing (Nanjing NARI Group Corp.,
	China)
	Evaluation Method of Oil-paper Insulation Damp State Based on Response Current Value Change
P1-12-A	Gang Lv, Wei Wang, Zongyuan Luo, Ke Li, Yujin Li (UHV Transmission Company China Southern Power
	Grid, China), Yuan Xia, Jiajun Li, Hao Yang (Chongqing University, China)
	Trace C2H2 Detection Based on Cantilever Enhanced Photoacoustic Spectroscopy.
P1-13-A	Long Li (Electric Power Research Institute of State Grid Chongqing Electric Power Company, China),
	Xianzong Chao, Zujian Huang (Wuhan University, China), Chang Liu (Chengdu Power Supply Company
	State Grid Sichuan Electric Power Company, China), Fuping Zeng, Ju Tang (Wuhan University, China)
	Study On Harmonic Response Analysis and Vibration Reduction of Amorphous Metal Alloy Transformer
P1-14-A	Romaric Kammeugue Noubissi, Daosheng Liu (Jiangxi University of Science and Technology, China), Boxue
	Du (Tianjin University, China)
	Cross-scene Power Equipment Monitoring Technology Based on DANN
P1-15-A	Suqin Xiong, Tianyu Gao (China Electric Power Research Institute, China), Zhengyuan Fei, Xushan Zhao
	(Xi'an Jiaotong University, China)
	Multi-fault integrated classification and identification method based on LSTM
P1-16-A	Suqin Xiong, Tianyu Gao (China Electric Power Research Institute, China), Xushan Zhao, Zhengyuan Fei
	(Xi'an Jiaotong University, China)
	Space Charge Distribution in Submarine Cable Factory Joint Insulation
	Xiaoning Shi, Wenpeng Li (State Key Laboratory of Advanced Power Transmission Technology State Grid
P1-17-A	Smart Grid Research Institute, China), Meng Zhang, Yang Liu (Xi'an Jiaotong University, China), Xin Chen,
	Chong Zhang (State Key Laboratory of Advanced Power Transmission Technology State Grid Smart Grid
	Research Institute, China), Wei Zhao, Lisheng Zhong, Jinghui Gao (Xi'an Jiaotong University, China)
	Characteristics of Temperature Distribution and Current Carrying Capacity of XLPE Cable Joint
P1-18-A	Yuming Dong, Zhonglei Li, Heyu Wang, Boxue Du (Tianjin University, China), Qinghua Tang, Zhengzheng
	Meng (Electric Power Research Institute State Grid Tianjin Electric Power Company, China)
D1 10 A	Analysis and Application of Sheath Circulation of HV Cable Cross Transposition System Based on EMTP
P1-19-A	Yang He, Zhenxing Wang, Hai Li, Tianyang Shi (State Grid Shanghai Cable Company, China)
	Effects of Oil Filtration Film Types and Superhydrophobic Modification on the Moisture Removal
D1 20 4	Characteristics of Transformer Oil
P1-20-A	Shuhan Wang, Lei He, Yonghang Zhang, Ling Wang, Yanling Chen, Chenbin Wu, Minji Tang, Cheng Wang
	(State Grid Shanghai Cable Company, China)



PI-21-A Construction and Application of Cable Smart Five Ring' Operation and Maintenance Management Mode Yunjie Zhou, Tianyu Yang, Qiang Xu, Zhouhong (State Grid Shanghai Cable Company, China)  PI-22-A Influence of Cable Length on Characteristic Parameters of PDC Test Xiaoyan Cao, Kai Zhou, Siyan Lin, Fan Yang (Sichnan University, China)  Ultra-Low Frequency Dielectric Loss Measurement of High Voltage Submarine Cable at Low Electric Field Wenhao Li, Qiang Li, Chunlin Hao (Tianjin university, China), Youcong Huang, Zhongnan Zheng (Electric Power Research Institute of Fujian Power Co., Ltd., China), Tao Han (Tianjin university, China)  Thermal Aging State Evaluation of 10kV Polypropylene Cable Juncai Li (Tsinghua University;Shenzhen International Graduate School, China), Nianping Yan, Deng Zhixiang (State Grid Corporation of China, China), Xilin Wang, Zhidong Jia (Tsinghua University;Shenzhen International Graduate School, China) Simin Luo, Weinan Fan (China, School, China), Simin Luo, Weinan Fan (China Southern Power Grid Company Ltd., China)  Analysis of Discharge Defect in Buffer Layer for High-Voltage Cable and Rejuvenation Method Jiasheng Huang, Meng Li, Zhuozhan Han (Guangzhou Power Supply Bureau of Guangdong Power Grid Co., Ltd., China), Zhiheng Wu (South China University of Technology, China), Baojun Hui (Electric Power Research Institute of China Southern Power Grid Co., Ltd., China), Gang Liu (South China University of Technology, China)  Study on the Behavior of 220kV Three Core Submarine Cable with a Suspension Span of Lom Scoured by Current  P1-27-A Yining Zhang (CSG EHV Power Transmission Company, China), Haotian Tan (South China University of Technology, China) Zhidi Huang (CSG EHV Power Transmission Company, China), Peng Zhang, Yanpeng Hao (South China University of Technology, China)  Derended Fluctuation Analysis of Grounding Current for Thermal Aging Evaluation of Submarine Power Cable  P1-29-A Fifect of Icing Gap on Insulated Layer Flectric Field During Conductor Galloping Zhihui Wang, Xingwan		Snangnai, China
P1-22-A P1-22-A P1-22-A P1-22-A P1-22-A P1-23-A P1-23-A P1-23-A P1-23-A P1-23-A P1-23-A P1-23-A P1-24-A P1-23-A P1-24-A P1-24-A P1-25-A P1-26-A P1-26-	Poster	Sessions
P1-22-A Influence of Cable Length on Characteristic Parameters of PDC Test Xiaoyan Cao, Kai Zhou, Siyan Lin, Fan Yang (Sichuan University, China)  Ultra-Low Frequency Dielectric Loss Measurement of High Voltage Submarine Cable at Low Electric Field P1-23-A Wenhao Li, Qiang Li, Chunlin Hao (Tianjin university, China), Youcong Huang, Zhongnan Zheng (Electric Power Research Institute of Fujian Power Co., Ltd., China), Tao Han (Tianjin university, China)  Thermal Aging State Evaluation of 10kV Polypropylene Cable Juncai Li (Tsinghua University;Shenzhen International Graduate School, China), Nianping Yan, Deng Zhixiang (State Grid Corporation of China, China), Xilin Wang, Zhidong Jia (Tsinghua University;Shenzhen International Graduate School, China) (State Grid Corporation of China, China), Xilin Wang, Zhidong Jia (Tsinghua University;Shenzhen International Graduate School, China), Simin Luo, Weinan Fan (China Southern Power Grid Company Ltd., China)  Analysis of Discharge Defect in Buffer Layer for High-Voltage Cable and Rejuvenation Method Jiasheng Huang, Meng Li, Zhuozhan Han (Guangzhou Power Supply Bureau of Guangdong Power Grid Co., Ltd., China), Shiheng Wu (South China University of Technology, China), Baojun Hui (Electric Power Research Institute of China Southern Power Grid Co., Ltd., China), Gang Liu (South China University of Technology, China), Baojun Hui (Electric Power Research Institute of China Southern Power Grid Co., Ltd., China), Gang Liu (South China University of Technology, China), Baojun Hui (Electric Power Research Institute of China Southern Power Grid Co., Ltd., China), Gang Liu (South China University of Technology, China), Haotian Tan (South China University of Technology, China), Peng Zhang, Yanpeng Hao (South China University) of Technology, China), Zhidi Huang (CSG EHV Power Transmission Company, China), Peng Zhang, Yanpeng Hao (South China University of Technology, China)  P1-28-A Zable Yong Liu, Zhihui Wang, Hongbao Zong, Youcong Huang, Boxue Du (Tianjin University)  Dynamic Motion a	P1-21-A	Construction and Application of Cable 'Smart Five Ring' Operation and Maintenance Management Mode
P1-22-A  Xiaoyan Cao, Kai Zhou, Siyan Lin, Fan Yang (Sichuan University, China)  Ultra-Low Frequency Dielectric Loss Measurement of High Voltage Submarine Cable at Low Electric Field  Wenhao Li, Qiang Li, Chunlin Hao (Tianjin university, China), Youcong Huang, Zhongnan Zheng (Electric Power Research Institute of Fujian Power Co., Ltd., China), Tao Han (Tianjin university, China)  Thermal Aging State Evaluation of 10kV Polypropylene Cable  Juncai Li (Tsinghua University; Shenzhen International Graduate School, China), Nianping Yan, Deng Zhixiang (State Grid Corporation of China, China), Xilin Wang, Zhidong Jia (Tsinghua University; Shenzhen International Graduate School, China)  P1-25-A  Hao Hu, Xiaodong Li, Zhidong Jia, Xilin Wang (Tsinghua University; Shenzhen International Graduate School, China), Simin Luo, Weinan Fan (China Southern Power Grid Company Ltd., China)  Analysis of Discharge Defect in Buffer Layer for High-Voltage Cable and Rejuvenation Method Jiasheng Huang, Meng Li, Zhuozhan Han (Guangzhou Power Supply Bureau of Guangdong Power Grid Co., Ltd., China), Zhiheng Wu (South China University of Technology, China), Baojun Hui (Electric Power Research Institute of China Southern Power Grid Co., Ltd., China), Baojun Hui (Electric Power Research Institute of China Southern Power Grid Co., Ltd., China), Gang Liu (South China University of Technology, China)  Study on the Behavior of 220kV Three Core Submarine Cable with a Suspension Span of 1.6m Scoured by Current  Yining Zhang (CSG EHV Power Transmission Company, China), Haotian Tan (South China University of Technology, China), Zhidi Huang (CSG EHV Power Transmission Company, China), Peng Zhang, Yanpeng Hao (South China University of Technology, China), Zhidi Huang (CSG EHV Power Transmission Company, China), Peng Zhang, Yanpeng Hao (South China University of Technology, China)  Detrended Fluctuation Analysis of Grounding Current for Thermal Aging Evaluation of Submarine Power Cable  Yong Liu, Zhihui Wang, Hongbao Zong, Youcong Huang, Boxue Du (Tianjin		Yunjie Zhou, Tianyu Yang, Qiang Xu, Zhouhong (State Grid Shanghai Cable Company, China)
Xiaoyan Cao, Kai Zhou, Siyan Lin, Fan Yang (Sichuan University, China)	D1 00 1	Influence of Cable Length on Characteristic Parameters of PDC Test
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P1-24-A P1-25-A P1-25-A P1-25-A P1-25-A P1-25-A P1-26-A P1-25-A P1-26-A P1-25-A P1-26-A P1-27-A P1-27-A P1-27-A P1-27-A P1-28-A P1-28-A P1-28-A P1-28-A P1-28-A P1-28-A P1-29-A P1-30-A P1-30-A P1-30-A P1-30-A P1-30-A P1-31-A Minxin Wang, Yong Liu (Tianjin University, China), Raipin Electric Power Company Limited, China), Zhihiui Wang, Yong Liu (Tianjin University of Technology and Education, China), Zhihiui Wang, Yong Liu (Tianjin University, China) P1-31-A P	P1-23-A	Wenhao Li, Qiang Li, Chunlin Hao (Tianjin university, China), Youcong Huang, Zhongnan Zheng (Electric
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P1-26-A Ltd., China), Zhiheng Wu (South China University of Technology, China), Baojun Hui (Electric Power Research Institute of China Southern Power Grid Co., Ltd, China), Gang Liu (South China University of Technology, China)  Study on the Behavior of 220kV Three Core Submarine Cable with a Suspension Span of 1.6m Scoured by Current  P1-27-A P1-27-A Yining Zhang (CSG EHV Power Transmission Company, China), Haotian Tan (South China University of Technology, China), Zhidi Huang (CSG EHV Power Transmission Company, China), Peng Zhang, Yanpeng Hao (South China University of Technology, China)  Detrended Fluctuation Analysis of Grounding Current for Thermal Aging Evaluation of Submarine Power Cable Yong Liu, Zhihui Wang, Hongbao Zong, Youcong Huang, Boxue Du (Tianjin University)  Effect of Icing Gap on Insulated Layer Electric Field During Conductor Galloping Zhihui Wang, Xingwang Huang, Xuejia Dong, Qiran Li, Boxue Du (Tianjin University)  Dynamic Motion and Discharge Behaviour of Water Droplets on Superhydrophobic Overhead Line Conductor Xu Zhang (University of Warwick, UK), Chorphaka Plaengpraphan, Wenyuan Li (The University of Manchester, UK), Chengxing Lian (Imperial College London, UK), Ian Cotton (The University of Manchester, UK), Kangning Wu, Jianying Li (Xi'an Jiaotong University, China)  Anchor Damage Evaluation of 110 kV Submarine Power Cable Based on Electric and Magnetic Field Distribution  Minxin Wang, Yong Liu (Tianjin University, China), Ruimin Pan (Tianjin University of Technology and Education, China), Zhihui Wang (Chengde Power Supply Company State Grid Jibei Electric Power Company Limited, China), Youcong Huang (Electric Power Research Institute State Grid Fujian Electric Power		Analysis of Discharge Defect in Buffer Layer for High-Voltage Cable and Rejuvenation Method
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Study on the Behavior of 220kV Three Core Submarine Cable with a Suspension Span of 1.6m Scoured by Current  P1-27-A P1-27-A P1-27-A P1-28-A P1-30-A P1-31-A P1-31-A Study on the Behavior of 220kV Three Core Submarine Cable with a Suspension Span of 1.6m Scoured by Current Vining Zhang (CSG EHV Power Transmission Company, China), Haotian Tan (South China University of Technology, China), Edit Huang (CSG EHV Power Transmission Company, China), Peng Zhang, Yanpeng Hao (South China University of Technology, China)  Detrended Fluctuation Analysis of Grounding Current for Thermal Aging Evaluation of Submarine Power Cable Yong Liu, Zhihui Wang, Hongbao Zong, Youcong Huang, Boxue Du (Tianjin University)  Effect of Icing Gap on Insulated Layer Electric Field During Conductor Galloping Zhihui Wang, Xingwang Huang, Xuejia Dong, Qiran Li, Boxue Du (Tianjin University)  Dynamic Motion and Discharge Behaviour of Water Droplets on Superhydrophobic Overhead Line Conductor Xu Zhang (University of Warwick, UK), Chorphaka Plaengpraphan, Wenyuan Li (The University of Manchester, UK), Chengxing Lian (Imperial College London, UK), Ian Cotton (The University of Manchester, UK), Kangning Wu, Jianying Li (Xi'an Jiaotong University, China)  Anchor Damage Evaluation of 110 kV Submarine Power Cable Based on Electric and Magnetic Field Distribution Minxin Wang, Yong Liu (Tianjin University, China), Ruimin Pan (Tianjin University of Technology and Education, China), Zhihui Wang (Chengde Power Supply Company State Grid Jibei Electric Power Company Limited, China), Youcong Huang (Electric Power Research Institute State Grid Fujian Electric Power		Research Institute of China Southern Power Grid Co., Ltd, China), Gang Liu (South China University of
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P1-30-A  Manchester, UK), Chengxing Lian (Imperial College London, UK), Ian Cotton (The University of Manchester, UK), Kangning Wu, Jianying Li (Xi'an Jiaotong University, China)  Anchor Damage Evaluation of 110 kV Submarine Power Cable Based on Electric and Magnetic Field Distribution  Minxin Wang, Yong Liu (Tianjin University, China), Ruimin Pan (Tianjin University of Technology and Education, China), Zhihui Wang (Chengde Power Supply Company State Grid Jibei Electric Power Company Limited, China), Youcong Huang (Electric Power Research Institute State Grid Fujian Electric Power		Dynamic Motion and Discharge Behaviour of Water Droplets on Superhydrophobic Overhead Line Conductor
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Anchor Damage Evaluation of 110 kV Submarine Power Cable Based on Electric and Magnetic Field Distribution Minxin Wang, Yong Liu (Tianjin University, China), Ruimin Pan (Tianjin University of Technology and Education, China), Zhihui Wang (Chengde Power Supply Company State Grid Jibei Electric Power Company Limited, China), Youcong Huang (Electric Power Research Institute State Grid Fujian Electric Power	P1-30-A	Manchester, UK), Chengxing Lian (Imperial College London, UK), Ian Cotton (The University of
P1-31-A  Distribution  Minxin Wang, Yong Liu (Tianjin University, China), Ruimin Pan (Tianjin University of Technology and Education, China), Zhihui Wang (Chengde Power Supply Company State Grid Jibei Electric Power Company Limited, China), Youcong Huang (Electric Power Research Institute State Grid Fujian Electric Power		Manchester, UK), Kangning Wu, Jianying Li (Xi'an Jiaotong University, China)
P1-31-A Minxin Wang, Yong Liu (Tianjin University, China), Ruimin Pan (Tianjin University of Technology and Education, China), Zhihui Wang (Chengde Power Supply Company State Grid Jibei Electric Power Company Limited, China), Youcong Huang (Electric Power Research Institute State Grid Fujian Electric Power		Anchor Damage Evaluation of 110 kV Submarine Power Cable Based on Electric and Magnetic Field
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Education, China), Zhihui Wang (Chengde Power Supply Company State Grid Jibei Electric Power Company Limited, China), Youcong Huang (Electric Power Research Institute State Grid Fujian Electric Power	D1 21 A	Minxin Wang, Yong Liu (Tianjin University, China), Ruimin Pan (Tianjin University of Technology and
	F1-31-A	Education, China), Zhihui Wang (Chengde Power Supply Company State Grid Jibei Electric Power Company
Company Limited, China), Boxue Du (Tianjin University, China)		Limited, China), Youcong Huang (Electric Power Research Institute State Grid Fujian Electric Power
		Company Limited, China), Boxue Du (Tianjin University, China)



Poster	Sessions
P1-32-A	Evolution of Cable Termination Interface Pressure Considering Low Temperature  O. L. D. V. Dr. V. V. V. and (Tringlin University China). D. V. Sang, L. L. L. V. V. (Tringlin Flantain Page 1997).
F1-32-A	Q.Li, B.X.Du, X.X.Kong (Tianjin University, China), P.X.Song, L.J.Li, Y.Yu (Tianjin Electric Power Research Institute)
P1-33-A	Reliability Evaluation of 10kV XLPE Cable Based on Fault Correlation Bayesian Network and Weibull
	Distribution Model  Ying Tang, Shitan Li, Jing Lei (Guangdong Electric Power Research Institute, China), Mingjun Tang, Yu
	Wang (Digital Enterprise Technology (Guangdong) Limited of Southern Power Grid, China), Bin Tai, Cuiru
	Yang, Tiansheng Chen (Guangdong Electric Power Research Institute, China), Jian Lu (Guangdong Power
	Grid, China), Zuoneng Wen (Digital Enterprise Technology (Guangdong) Limited of Southern Power Grid,
	China)
	Burial Depth Detection Method for Three-Core 220 kV Submarine Cables Based on the Optical Fiber
D1 24 A	Monitoring Temperature  Viving 7 hours (CSC FLIV) Proper Transportation Co., China Cichard Li (South China University of
P1-34-A	Yining Zhang (CSG EHV Power Transmission Co., China), Qishun Li (South China University of
	Technology, China), Yueguang Yang (CSG EHV Power Transmission Co., China), Peng Zhang, Yanpeng Hao (South China University of Technology, China)
	Evaluation of Trap Energy and Distribution in Polymers with an Electric Field Stimulated Method
P1-35-A	Zerui Li, Kai Zhou (Sichuan University, China)
Poster Ses	•
Equipmen	t Aging and Assessment: Insulator and Others
	ay 9, 2023 10:00 – 12:30
Tuesday, M	
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Tuesday, M Venue: Gal	(ay 9, 2023 10:00 – 12:30
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Tuesday, M Venue: Gal	(ay 9, 2023 10:00 – 12:30  lery hall, 3rd F  A Mechanical Vibration Fault Diagnosis Method of Generator Circuit Breaker Based on Deep Residual Network
Tuesday, M Venue: Gal	A Mechanical Vibration Fault Diagnosis Method of Generator Circuit Breaker Based on Deep Residual Network Guowen Hao, Yanping Yang (State Grid Xinyuan Group Co., Ltd., China), Hao Yu (Hekai Electric
Tuesday, M Venue: Gal	A Mechanical Vibration Fault Diagnosis Method of Generator Circuit Breaker Based on Deep Residual Network Guowen Hao, Yanping Yang (State Grid Xinyuan Group Co., Ltd., China), Hao Yu (Hekai Electric Technology Co., Ltd., China), Yaxiong Tan, Erhan Hu, Mingyu Zhang (Chongqing University, China)
Tuesday, M Venue: Gall P2-01-B	A Mechanical Vibration Fault Diagnosis Method of Generator Circuit Breaker Based on Deep Residual Network Guowen Hao, Yanping Yang (State Grid Xinyuan Group Co., Ltd., China), Hao Yu (Hekai Electric Technology Co., Ltd., China), Yaxiong Tan, Erhan Hu, Mingyu Zhang (Chongqing University, China) Rebreakdown Characteristics of Vacuum Circuit Breaker in its Breaking Process under DC Voltage
Tuesday, M Venue: Gall P2-01-B	lery hall, 3rd F  A Mechanical Vibration Fault Diagnosis Method of Generator Circuit Breaker Based on Deep Residual Network  Guowen Hao, Yanping Yang (State Grid Xinyuan Group Co., Ltd., China), Hao Yu (Hekai Electric Technology Co., Ltd., China), Yaxiong Tan, Erhan Hu, Mingyu Zhang (Chongqing University, China)  Rebreakdown Characteristics of Vacuum Circuit Breaker in its Breaking Process under DC Voltage  Jixing Sun (Beijing Jiaotong University, China), Zhen Li, Hong Wang (State Grid Liaoning Electric Power
Tuesday, M	lery hall, 3rd F  A Mechanical Vibration Fault Diagnosis Method of Generator Circuit Breaker Based on Deep Residual Network  Guowen Hao, Yanping Yang (State Grid Xinyuan Group Co., Ltd., China), Hao Yu (Hekai Electric Technology Co., Ltd., China), Yaxiong Tan, Erhan Hu, Mingyu Zhang (Chongqing University, China)  Rebreakdown Characteristics of Vacuum Circuit Breaker in its Breaking Process under DC Voltage  Jixing Sun (Beijing Jiaotong University, China), Zhen Li, Hong Wang (State Grid Liaoning Electric Power Supply Co., Ltd, China), Jiyong Liu (Shuohuang Railway Development Co., LTD, China), Dong Lei (China)
Tuesday, M Venue: Gall P2-01-B	lery hall, 3rd F  A Mechanical Vibration Fault Diagnosis Method of Generator Circuit Breaker Based on Deep Residual Network  Guowen Hao, Yanping Yang (State Grid Xinyuan Group Co., Ltd., China), Hao Yu (Hekai Electric Technology Co., Ltd., China), Yaxiong Tan, Erhan Hu, Mingyu Zhang (Chongqing University, China)  Rebreakdown Characteristics of Vacuum Circuit Breaker in its Breaking Process under DC Voltage  Jixing Sun (Beijing Jiaotong University, China), Zhen Li, Hong Wang (State Grid Liaoning Electric Power Supply Co., Ltd, China), Jiyong Liu (Shuohuang Railway Development Co., LTD, China), Dong Lei (China Academy of Railway SciencesGroup Co., Ltd, China), Xin Wang (Shuohuang Railway Development Co.,
Tuesday, M Venue: Gall P2-01-B	lery hall, 3rd F  A Mechanical Vibration Fault Diagnosis Method of Generator Circuit Breaker Based on Deep Residual Network Guowen Hao, Yanping Yang (State Grid Xinyuan Group Co., Ltd., China), Hao Yu (Hekai Electric Technology Co., Ltd., China), Yaxiong Tan, Erhan Hu, Mingyu Zhang (Chongqing University, China)  Rebreakdown Characteristics of Vacuum Circuit Breaker in its Breaking Process under DC Voltage Jixing Sun (Beijing Jiaotong University, China), Zhen Li, Hong Wang (State Grid Liaoning Electric Power Supply Co., Ltd, China), Jiyong Liu (Shuohuang Railway Development Co., LTD, China), Dong Lei (China Academy of Railway SciencesGroup Co., Ltd, China), Xin Wang (Shuohuang Railway Development Co., LTD, China)
Tuesday, M Venue: Gall P2-01-B P2-02-B	lery hall, 3rd F  A Mechanical Vibration Fault Diagnosis Method of Generator Circuit Breaker Based on Deep Residual Network  Guowen Hao, Yanping Yang (State Grid Xinyuan Group Co., Ltd., China), Hao Yu (Hekai Electric Technology Co., Ltd., China), Yaxiong Tan, Erhan Hu, Mingyu Zhang (Chongqing University, China)  Rebreakdown Characteristics of Vacuum Circuit Breaker in its Breaking Process under DC Voltage  Jixing Sun (Beijing Jiaotong University, China), Zhen Li, Hong Wang (State Grid Liaoning Electric Power Supply Co., Ltd, China), Jiyong Liu (Shuohuang Railway Development Co., LTD, China), Dong Lei (China Academy of Railway SciencesGroup Co., Ltd, China), Xin Wang (Shuohuang Railway Development Co., LTD, China)  Study on AC Pollution Flashover Performance of Bushing External Insulation at High Altitude
Fuesday, M Venue: Gall P2-01-B	lery hall, 3rd F  A Mechanical Vibration Fault Diagnosis Method of Generator Circuit Breaker Based on Deep Residual Network Guowen Hao, Yanping Yang (State Grid Xinyuan Group Co., Ltd., China), Hao Yu (Hekai Electric Technology Co., Ltd., China), Yaxiong Tan, Erhan Hu, Mingyu Zhang (Chongqing University, China) Rebreakdown Characteristics of Vacuum Circuit Breaker in its Breaking Process under DC Voltage Jixing Sun (Beijing Jiaotong University, China), Zhen Li, Hong Wang (State Grid Liaoning Electric Power Supply Co., Ltd, China), Jiyong Liu (Shuohuang Railway Development Co., LTD, China), Dong Lei (China Academy of Railway SciencesGroup Co., Ltd, China), Xin Wang (Shuohuang Railway Development Co., LTD, China)  Study on AC Pollution Flashover Performance of Bushing External Insulation at High Altitude Sun Yong (M&T Center of CSG EHV Power Transmission Company, China), Qiu Ziwei (Chongqing University, China), Lu Wenhao (M&T Center of CSG EHV Power Transmission Company, China), Zhang
Tuesday, M Venue: Gall P2-01-B P2-02-B	lery hall, 3rd F  A Mechanical Vibration Fault Diagnosis Method of Generator Circuit Breaker Based on Deep Residual Network Guowen Hao, Yanping Yang (State Grid Xinyuan Group Co., Ltd., China), Hao Yu (Hekai Electric Technology Co., Ltd., China), Yaxiong Tan, Erhan Hu, Mingyu Zhang (Chongqing University, China) Rebreakdown Characteristics of Vacuum Circuit Breaker in its Breaking Process under DC Voltage Jixing Sun (Beijing Jiaotong University, China), Zhen Li, Hong Wang (State Grid Liaoning Electric Power Supply Co., Ltd, China), Jiyong Liu (Shuohuang Railway Development Co., LTD, China), Dong Lei (China Academy of Railway SciencesGroup Co., Ltd, China), Xin Wang (Shuohuang Railway Development Co., LTD, China)  Study on AC Pollution Flashover Performance of Bushing External Insulation at High Altitude Sun Yong (M&T Center of CSG EHV Power Transmission Company, China), Qiu Ziwei (Chongqing
Tuesday, M Venue: Gall P2-01-B P2-02-B	lery hall, 3rd F  A Mechanical Vibration Fault Diagnosis Method of Generator Circuit Breaker Based on Deep Residual Network Guowen Hao, Yanping Yang (State Grid Xinyuan Group Co., Ltd., China), Hao Yu (Hekai Electric Technology Co., Ltd., China), Yaxiong Tan, Erhan Hu, Mingyu Zhang (Chongqing University, China) Rebreakdown Characteristics of Vacuum Circuit Breaker in its Breaking Process under DC Voltage Jixing Sun (Beijing Jiaotong University, China), Zhen Li, Hong Wang (State Grid Liaoning Electric Power Supply Co., Ltd, China), Jiyong Liu (Shuohuang Railway Development Co., LTD, China), Dong Lei (China Academy of Railway SciencesGroup Co., Ltd, China), Xin Wang (Shuohuang Railway Development Co., LTD, China)  Study on AC Pollution Flashover Performance of Bushing External Insulation at High Altitude Sun Yong (M&T Center of CSG EHV Power Transmission Company, China), Qiu Ziwei (Chongqing University, China), Lu Wenhao (M&T Center of CSG EHV Power Transmission Company, China), Zhang Zhijin (Chongqing University, China), Cui Yanjie (M&T Center of CSG EHV Power Transmission Company
Tuesday, M Venue: Gall P2-01-B P2-02-B	lery hall, 3rd F  A Mechanical Vibration Fault Diagnosis Method of Generator Circuit Breaker Based on Deep Residual Network  Guowen Hao, Yanping Yang (State Grid Xinyuan Group Co., Ltd., China), Hao Yu (Hekai Electric Technology Co., Ltd., China), Yaxiong Tan, Erhan Hu, Mingyu Zhang (Chongqing University, China)  Rebreakdown Characteristics of Vacuum Circuit Breaker in its Breaking Process under DC Voltage  Jixing Sun (Beijing Jiaotong University, China), Zhen Li, Hong Wang (State Grid Liaoning Electric Power Supply Co., Ltd, China), Jiyong Liu (Shuohuang Railway Development Co., LTD, China), Dong Lei (China Academy of Railway SciencesGroup Co., Ltd, China), Xin Wang (Shuohuang Railway Development Co., LTD, China)  Study on AC Pollution Flashover Performance of Bushing External Insulation at High Altitude  Sun Yong (M&T Center of CSG EHV Power Transmission Company, China), Qiu Ziwei (Chongqing University, China), Lu Wenhao (M&T Center of CSG EHV Power Transmission Company, China), Zhang Zhijin (Chongqing University, China), Cui Yanjie (M&T Center of CSG EHV Power Transmission Company, China), Duan Jiamin (Chongqing University, China)
Tuesday, M Venue: Gall P2-01-B	lery hall, 3rd F  A Mechanical Vibration Fault Diagnosis Method of Generator Circuit Breaker Based on Deep Residual Network Guowen Hao, Yanping Yang (State Grid Xinyuan Group Co., Ltd., China), Hao Yu (Hekai Electric Technology Co., Ltd., China), Yaxiong Tan, Erhan Hu, Mingyu Zhang (Chongqing University, China) Rebreakdown Characteristics of Vacuum Circuit Breaker in its Breaking Process under DC Voltage Jixing Sun (Beijing Jiaotong University, China), Zhen Li, Hong Wang (State Grid Liaoning Electric Power Supply Co., Ltd, China), Jiyong Liu (Shuohuang Railway Development Co., LTD, China), Dong Lei (China Academy of Railway SciencesGroup Co., Ltd, China), Xin Wang (Shuohuang Railway Development Co., LTD, China)  Study on AC Pollution Flashover Performance of Bushing External Insulation at High Altitude Sun Yong (M&T Center of CSG EHV Power Transmission Company, China), Qiu Ziwei (Chongqing University, China), Lu Wenhao (M&T Center of CSG EHV Power Transmission Company, China), Zhang Zhijin (Chongqing University, China), Cui Yanjie (M&T Center of CSG EHV Power Transmission Company China), Duan Jiamin (Chongqing University, China) Investigation on Breakdown of AC-GIL Tri-post Insulator with Crack Defect
Tuesday, M Venue: Gall P2-01-B P2-02-B	lery hall, 3rd F  A Mechanical Vibration Fault Diagnosis Method of Generator Circuit Breaker Based on Deep Residual Network  Guowen Hao, Yanping Yang (State Grid Xinyuan Group Co., Ltd., China), Hao Yu (Hekai Electric Technology Co., Ltd., China), Yaxiong Tan, Erhan Hu, Mingyu Zhang (Chongqing University, China)  Rebreakdown Characteristics of Vacuum Circuit Breaker in its Breaking Process under DC Voltage  Jixing Sun (Beijing Jiaotong University, China), Zhen Li, Hong Wang (State Grid Liaoning Electric Power Supply Co., Ltd, China), Jiyong Liu (Shuohuang Railway Development Co., LTD, China), Dong Lei (China Academy of Railway SciencesGroup Co., Ltd, China), Xin Wang (Shuohuang Railway Development Co., LTD, China)  Study on AC Pollution Flashover Performance of Bushing External Insulation at High Altitude  Sun Yong (M&T Center of CSG EHV Power Transmission Company, China), Qiu Ziwei (Chongqing University, China), Lu Wenhao (M&T Center of CSG EHV Power Transmission Company, China), Zhang Zhijin (Chongqing University, China), Cui Yanjie (M&T Center of CSG EHV Power Transmission Company China), Duan Jiamin (Chongqing University, China)  Investigation on Breakdown of AC-GIL Tri-post Insulator with Crack Defect Boxue Du, Zhijun Guo, Hucheng Liang (Tianjin University, China), L. C. Hao (Pinggao Group Co., Ltd, China), B. Y. Cui, Y. Chen (China Electric Power Research Institute, China)
Tuesday, M Venue: Gall P2-01-B P2-02-B	lery hall, 3rd F  A Mechanical Vibration Fault Diagnosis Method of Generator Circuit Breaker Based on Deep Residual Network Guowen Hao, Yanping Yang (State Grid Xinyuan Group Co., Ltd., China), Hao Yu (Hekai Electric Technology Co., Ltd., China), Yaxiong Tan, Erhan Hu, Mingyu Zhang (Chongqing University, China) Rebreakdown Characteristics of Vacuum Circuit Breaker in its Breaking Process under DC Voltage Jixing Sun (Beijing Jiaotong University, China), Zhen Li, Hong Wang (State Grid Liaoning Electric Power Supply Co., Ltd, China), Jiyong Liu (Shuohuang Railway Development Co., LTD, China), Dong Lei (China Academy of Railway SciencesGroup Co., Ltd, China), Xin Wang (Shuohuang Railway Development Co., LTD, China)  Study on AC Pollution Flashover Performance of Bushing External Insulation at High Altitude Sun Yong (M&T Center of CSG EHV Power Transmission Company, China), Qiu Ziwei (Chongqing University, China), Lu Wenhao (M&T Center of CSG EHV Power Transmission Company, China), Zhang Zhijin (Chongqing University, China), Cui Yanjie (M&T Center of CSG EHV Power Transmission Company China), Duan Jiamin (Chongqing University, China) Investigation on Breakdown of AC-GIL Tri-post Insulator with Crack Defect Boxue Du, Zhijun Guo, Hucheng Liang (Tianjin University, China), L. C. Hao (Pinggao Group Co., Ltd,



	Shanghai, China
Poster	Sessions
	Technology and Education, China), Xianghuan Kong (State Grid Jiangsu Electric Power Co. Ltd., China), B. X. Du (Tianjin University, China), Zhen Yin (State Grid Tianjin Electric Power Company, China)
P2-06-B	Study on the Degradation of FRP Rod of Composite Insulator under Electrical Stress and Salt Fog Shuqi Liu, Shuming Liu, Qian Wang, Ying Zhou, Zuo Zhou, Chao Wu (Tsinghua University, China), Yanfeng Gao (State Grid Jibei Electric Power Co. Ltd., China), Xidong Liang (Tsinghua University, China)
Р2-07-В	Analysis of the Cause of Decay-Like Fracture of Eccentric Composite Insulator Senlin Liao, Hongwei Mei (Tsinghua University, China), Jun Yong, Hui Liu, Chao Zhou, Hao Shen (State Grid Shandong Electirc Power Company, China)
P2-08-B	The Influence of Uneven Pollution Distribution on the Electrical and Thermal Characteristics of Insulators Kai Zheng, Huayong Huang, Fuqi Yang, Ming Chen (State Grid Chongqing Maintenance Company, China), Hang Zhang (Chongqing University, China), Zhijin Zhang (Chongqing University, China; Chongqing Dige Technology Co., Ltd., China)
P2-09-B	Typical Fault Analysis of Composite Insulators for Transmission Lines in Fujian Province Xiaojie Wang, Xinyuan Wan, Chaohui Lin, Tianyi Wang, Qiong Wang (State Grid Fujian Electric Power CO.LTD, China), Bizhen Zhang (Fuzhou University, China)
P2-10-B	Research on Pollution Agglomeration Characteristics of Insulator in DC Electric Field  Yijie Liu (Shanghai Jiao Tong University, China), Yujun Guo (Southwest Jiaotong University, China), Pengli  Li, Xingyi Huang (Shanghai Jiao Tong University, China)
P2-11-B	Transformation and Analysis of Leakage Current for Icing Flashover Prediction of HVDC Outdoor Insulators Chao Li, Yong Liu (Tianjin University, China), Zhihui Wang, Qiran Li (State Grid Jibei Electric Power Company, China), Masoud Farzaneh (Université du Québec à Chicout, Canada), Boxue Du (Tianjin University, China)
P2-12-B	Ice Growth Characteristics of Insulators in High Altitude Environments  Song Yue (Chongqing University, China; State Grid Tibet Electric Power Research Institute, China), Zhijin  Zhang, Hang Zhang (Chongqing University, China), Wenhui Zeng (State Grid Sichuan Economic and  Technology Research Institute, China)
P2-13-B	AC Pollution Flashover Characteristics of Post Insulators under Low Air Pressure Xiaodong Wan (China Electric Power Research Institute, China), Hailin Shi, Zhijin Zhang (Chongqing University, China), Wei Hu (China Electric Power Research Institute, China), Yuanpeng Zhang (Chongqing University, China)
P2-14-B	Quantitative Approaches to Evaluating the Chalking Layer on Silicone Rubber Qian Wang (Tsinghua University, China), Tingyu Jiang (State Grid Shanghai Electric Power Company, China), Shuming Liu, Shuqi Liu, Ying Zhou, Zhou Zuo, Chao Wu, Xidong Liang (Tsinghua University, China)
P2-15-B	Condition Assessment of Composite Insulators Based on Thermally Stimulated Current Method Jianghua Kuang, Zhenyu Chen, Zhuo Chen, Xiangwei Tong (State Grid Hunan Electric Power Co. LTD, China), Kang Longyu, Pan Zhuohong (North China Electric Power University, China)
P2-16-B	The Hydrophobicity Measurement Method of Silicone Rubber Based on the Principle of Condensation Moisture



Poster	Sessions
	Peng Shen, Hongwei Mei (Tsinghua University, China), Jun Yong, Hui Liu, Chao Zhou, Hao Shen (State Grid Shandong Electric Power Company, China)
P2-17-B	Online Monitoring of Insulator Failure Using Micro Electric-field Sensor Zhifei Han, Jun Hu, Jinliang He (Tsinghua University, China)
P2-18-B	Influence of Different Artificial Aging Methods on Water Intrusion of HTV SR in Hot and Humid Environment Hongling Zhou, Yong Wang, Guangmao Li, Gang Du, Jie Yang, Weinan Fan (Guangdong Power Grid Co., Ltd., China)
P2-19-B	Effect of Different Operating Conditions on Aging Characteristics of Composite Insulators Based on Micro-FTIR Chao Li, Yong Liu (Tianjin University, China), Zhihui Wang, Qiran Li (State Grid Jibei Electric Power Company, China), B. X. Du (Tianjin University, China)
Р2-20-В	Research on Intelligent Sensing Method for Three-dimensional Coverage of Hot Spots in Switchgear PengQi Zuo, JiaQi Huang, FeiLong Wang, YinChen Zhang, HaiFeng Jin, LiJun Jin (Tongji University, China)
P2-21-B	Investigation of the Compatibility between Mechanical Fixing Tapes and Impregnation Fluid of Power Capacitors Ruan Li, Yujia Ban, Lu Cheng, Wenfeng Liu (Xi'an Jiaotong University, China)
P2-22-B	Research on Intelligent Production Line System of Motor End Cover With Virtual-real Interaction Nan Lin, Yifei Wang, Pengqi Zuo, Yinchen Zhang, Lijun Jin (Tongji University, China)
P2-23-B	Research on Intelligent Evaluation and Fault Diagnosis Technology of Stator Winding Insulation State of Generator on Base of Micro Molecular and Condensed Structure Analysis  Shuai Yang, Ze Huang, Li Tang, Zhihui Xie, Bo Hu, Yue Zhang, Mingpeng He (Dong Fang Electric Machinery Co.,Ltd., China)
P2-24-B	Practical Research on a New Type of Electric Field Sensor  Kun Ke, Qing Yang, Wei Liao, Zhenhui Qiu, Lewei Ma (Chongqing University, China)
P2-25-B	Main Insulation Aging State Evaluation of Generator Stator Bar Based on the branch way model of the PDC method Siyu Wang, Kai Zhou, Guangya Zhu, Haoyang Li (Sichuan University, China)
P2-26-B	Experimental Study of Wind Turbine Blade Lightning Strike High Current Damage Characteristics  Lingfeng Jiang, Kai Ning, Xiaoqi Huang (Changsha University of Science & Technology, China)
P2-27-B	Design of UHF-Overvoltage Sensor and Measurement Under Superimposed Voltage Haotian Wang, Huan Chen, Hengchao Huang, Yuang Wang, Xutao Han, Junhao Li (Xi'an Jiaotong University, China)
P2-28-B	Study on the Feature Recognition of Interfacial Defects in Composite Insulator Using Low Energy Chirp Pulsed Radar Thermography Rui Sun, Hongwei Mei (Tsinghua University, Shenzhen International Graduate School, China), Hanqi Dai (Electric Power Co., Ltd., Huairou Power Supply Branch, China), Ling Luo (Electric Power Co., Ltd., Loudi Power Supply Branch, China), Xiaochun Che, Jianhui Xu (Electric Power Co., Ltd., Lhasa Power Supply Branch, China)



Poster	Poster Sessions	
P2-29-B	Preliminary Measurement Research on PiezoStimulated Currents of Polymers  Tianhua Lv (Tongji University, China), Jiaan Shi, Xuan Wang (Harbin University of Science and Technology, China), Yewen Zhang (Tongji University, China), Yang Xu (Xi'an Jiaotong University, China)	
P2-30-B	Experimental Study on Explosion of Arc Discharge in the Oil Compartment of OLTC Yikun Zhao, Ke Wang, Shuqi Zhang, Xiaolu Lv (China Electric Power Research Institute, China), Juzhen Wu (State Grid Economic and Technical Research Institute Institute, China), Pei Cao (State Grid Shanghai Electric Power Company, China)	
P2-31-B	Research on Aging Characteristics of Arrester under High Frequent Overvoltage  Jixing Sun, Yongzhi Fan (Beijing Jiaotong University, China), Hong Wang (Jinzhou Operation and  Maintenance Division of Extra High Voltage Branch State Grid Liaoning Electric Power Supply Co., Ltd.,  China), Jiyong Liu (Shuohuang Railway Development Co., LTD National Energy Group, China), Dong Lei  (OCS Research Institute China Academy of Railway Sciences  Group Co., Ltd, China), Xin Wang (Shuohuang Railway Development Co.,LTD National Energy Group,  China)	
P2-32-B	Conductivity Property of Frozen Soil in Alpine and High Altitude Regions up to 5500m  Xiujuan Chen, Peng Kang (Tibet Yangbajing High Altitude Electrical Safety and Electromagnetic  Environment National Observation and Research Station, China), Yanlei Li, Duo Lv (State Grid Corporation of China, China), Shengcheng Dong, Ling Jiang (Electric Power Research Institute of State Grid Qinghai Electric Power, China)	
Р2-33-В	A Data Driven Method for Arc Fault Detection in Actual Photovoltaic System  Jianhua Cha (Electric Power Research Institute Yunnan Power Grid Co. Ltd, China), Qi Yang (Xi'an Jiaotong University, China), Xiaohua Yang (Electric Power Research Institute Yunnan Power Grid Co. Ltd, China), Yu Meng (Xi'an Jiaotong University, China)	
P2-34-B	Flexible Naked-eye High-field Detector Based on Semiconductor/Insulator Bilayer Films  Yuanwei Zhu (Xi'an Jiaotong University, China), Yongjie Nie (Electric Power Research Institute, Yunnan  Power Gird Co., Ltd, China), Shengtao Li (Xi'an Jiaotong University, China)	
P2-35-B	Research on the DC bias in AC Power Grid Caused by Metro Stray Current  Yongcong Wu, Hansheng Cai (China Southern Power Grid Research Institute, China)	
Poster Ses		
	and Assessment	
	, May 10, 2023 10:00 – 12:30 lery hall, 3rd F	
venue. Gui		
P3-01-A	Condition Assessment of Low Voltage Circuit Breaker Based on Long Short-term Memory Network Suqin Xiong, Tianyu Gao (China Electric Power Research Institute, China), Caizhi Gao, Jianing Xu, Silei Chen (Xi'an Jiaotong University, China)	
P3-02-A	Hydrophobicity Classification of Composite Insulators based on Image Enhancement and Deep Learning Kai Yang, Xin Wang (Shanghai Jiao Tong University, China), Dawei Liu, Lixin Jiao (State Grid Jilin Electric Power Co.,Ltd, China), Song Yang (State Grid Jilin Electric Power Co.,Ltd, China), Peng Jin (State Grid Jilin Electric Power Co.,Ltd, China)	
P3-03-A	Relationship Extraction of Bushing Failure from Chinese Corpus based on BERT. Shuojie Gao, Yufang Zhang, Zhikang Yuan (Tongji University, China)	



	Shanghai, China
Poster	Sessions
P3-04-A	Research on AC Arc Fault Detection Method based on Wigner-Hough Transform and NG-Boost
	Wang Jing, Yuming Zhao, Qi Yang (Xi'an Jiaotong University, China)
	Identification of Fault Types in Lithium Ions Batteries Energy Storage Station Through Thermal Runaway Gas
P3-05-A	Generation
	Shuwen Chen, Shuang Shi, Yang Jin (Zhengzhou University, China)
	Determination of Moisture Content in Silicone Rubber Under Swelling Effect of Silicone Oil Using PDC
P3-06-A	Method
	Hao Yuan, Kai Zhou, Yuan Li (Sichuan University, China)
P3-07-A	Multi-state Monitoring System for Cables and Channels Based on Intelligent Perception Technology
13-07-A	Junling Zhong, Dongyuan Wang, Zhiqi Wang, Zhixiao Wang (State Grid Shanghai Cable Company, China)
	Research on Precise Positioning Technology of UAV Based on Visual Positioning and Visual Tracking
P3-08-A	Qiran Li, Qingsheng Tian, Zhuo Pan (Jibei Electric Power Company Limited, China), Yong Liu (Tianjin
13-06-A	University, China), Shuang Zhen (Jibei Electric Power Company Limited, China), Boxue Du (Tianjin
	University, China)
	Modified Technique for Measuring Complex Permittivity of Coarse Polymer Films
P3-09-A	Jun Li, Tianhua Lv, Wenhao Zhang, Feihu Zheng (Tongji University, China), Yang Xu (Xi'an Jiaotong
	University, China), Yewen Zhang (Tongji University, China)
	An Infrared Detection Scheme for Distribution Network Power Equipment Based on Deep Convolutional
	Auto-Encoder for Small Negative Samples
P3-10-A	Yuepeng Xin, Yong Liu (Tianjin University, China), Zhihui Wang (State Grid Jibei Electric Power Company
	Limited, China), Xingwang Huang (State Grid Hebei Electric Power Company Limited, China), Han Zhang,
	Boxue Du (Tianjin University, China)
	Design and Optimization of the Energy Harvesting Device for Wireless Sensors
P3-11-A	Qihui Feng, Mingyong Xin, Changbao Xu, Yuanyuan Zhang (Guizhou Power Grid Co., Ltd., China), Zhong
	Liu, Zejie Tan, Qiancheng Lv (China Southern Power, China)
	Narrowband Interference Suppression of Partial Discharge on Singular Spectrum Analysis
P3-12-A	Siwei Yang , Guoqiang Gao, Kai Liu, Shuyuan Zhou, Kui Chen, Guangning Wu (Southwest Jiaotong
	University, China)
	Separation Strategy of Partial Discharge Pulses Interference of Vehicle Cable Terminal
P3-13-A	Han Cao, Guoqiang Gao, Bo Li, Minbin He, Kai Liu, Siwei Yang, Shuyuan Zhou (Southwest Jiaotong
	University, China)
	Effects of Rise Time and Pulse Width on Magnitude and Phase Distribution of the Partial Discharge in Power
P3-14-A	Module Packaging Insulation Under Square Pulse
	Yi Ding, Yalin Wang, Yi Yin (Shanghai Jiao Tong University, China)
	Partial Discharge and Flashover Characteristics of Millimeter Metal Particles on the Insulator Surface in a Gas
	Insulated Switchgear
P3-15-A	Peng Xu, Yiping Ji (Electric Power Research Institute of Shanghai Power Grid Corporation, China), Xing Li
	(Sichuan Energy Internet Research Institute, Tsinghua University, China), Pei Cao, Zhengyong Hu, Shaojing
	Wang (Electric Power Research Institute of Shanghai Power Grid Corporation, China)



	Shanghai, China	
Poster	Sessions	
P3-16-A	Partial Discharge Characteristics of a Void Defect inside an Actual 252-kV GIS Post Insulator	
	Yiping Ji, Min Ding (Electric Power Research Institute of Shanghai Power Grid Corporation, China), Xing Li	
	(Sichuan Energy Internet Research Institute, Tsinghua University, China), Shaojing Wang, Xianqin Deng,	
	Yanqing Lu (Electric Power Research Institute of Shanghai Power Grid Corporation, China)	
	Characterisation of Acrylic Lightguides for an Optical Partial Discharge Measurement System for Gas-	
	Insulated Gear	
P3-17-A	Tobias Fechner, Mingyu Zhou (Global Energy Interconnection Research Institute Europe GmbH, Germany),	
	Felix Klichowski, Prof. DrIng. Ronald Plath (Technische Universität Berlin, Germany), Yi Luo, Haitian	
	Wang (Global Energy Interconnection Research Institute Europe GmbH, Germany)	
	A Denoising Method for Partial Discharge Based on Wavelet Transformation and Singular Value	
D2 10 4	Decomposition	
P3-18-A	Lin He, Heli Ni (State Grid Shanghai Electric Power Research Institute, China; State Grid Shanghai Municipal	
	Electric Power Company, China)	
	Feature Extraction of Partial Discharge Signals of Cable Terminal in Distribution Network Based on Discrete	
P3-19-A	Level Acquisition Technology	
	Shouming Wang, Haiyue Zhang, Ji Liu, Zhen Li (Harbin University of Science and Technology, China)	
	Partial Discharge Characteristics of Post Insulators for 10 kV Switchgear at Different Humidities	
D2 20 4	Chuanyang Li (Tsinghua University, China), Wenkai Zhou, Feiyu Wang (Taiyuan University of Technology,	
P3-20-A	China), Lianghua Zhao (Jiangyin Furen Electric Co., Ltd., China), Fangwei Liang (Tsinghua University,	
	China), Zhipeng Lei (Taiyuan University of Technology, China)	
	An Improved UHF Antenna for Partial Discharge Detection Based on Coplanar Waveguide Feeding	
P3-21-A	Xiaoxiao Kong, Chong Zhang, Boxue Du, Chengyao Hou (Tianjin University, China), Yun Chen, Jinpeng	
	Jiang (China Electric Power Research Institute, China)	
	Diagnosis of AD and DSV Winding Faults Based on FRA Method and Random Forest Algorithm	
D2 22 4	Song Wang, Shengxuan Qiu, Fei Xie, Siying Yang (Northewest A&F University, China), Kerui Yu (State	
P3-22-A	Grid Shaanxi Electric Power Company, China), Tong Li (Huangling Mining Group Co., Ltd. of Shaanxi Coal	
	and Chemical Industry Group, China)	
D2 22 4	Fault Detection and Identification for CHB-BESS Based on Convolutional Neural Network	
P3-23-A	Zhihao Liu, Lingfeng He, Zhibin Ling, Xuguang Li (Shanghai Jiao Tong University, China)	
	Simulation Study on UHF Signal Propagation Characteristics of Partial Discharge in the Power Transformer	
	Outlet Device	
D2 24 4	Dan Zhou, Xian Yang, Zhiqin Ma, Linglong Cai, Bin Tai (Electric Power Research Institute of Guangdong	
P3-24-A	Power Grid Co., Ltd., China), Duanjiao Li (Guangdong Power Grid Co., Ltd., China), Yuhui Jin, Chunyao	
	Lin, Shuo Jiang, Xiang Shu (Electric Power Research Institute of Guangdong Power Grid Co., Ltd., China),	
	Hao Liu, Guoming Ma (North China Electric Power University, China)	
	Simulation on GIS Optical Partial Discharge Based on Light Guide Rod	
P3-25-A	Ze Li, Yong Qian (Shanghai Jiao Tong University, China), Zhen Wang, Hai Xue (State Grid Jiangsu Electric	
	Power Co., Ltd., China), Yiming Zang, Xiuchen Jiang (Shanghai Jiao Tong University, China)	
	Detection of Different Cable Defects Simulated by Impedance Box Based on FDR	
P3-26-A	Jingtao Huang, Kai Zhou, Pengfei Meng, Yefei Xu, Zhirong Tang (Sichuan University, China), Zhongyin	
	Liang (Yunnan Electric Power Design Institute Co. Ltd., China)	



Poster	Sessions
P3-27-A	Research on Machine Learning Method for Ultrasonic Temperature Measurement of Transformer Haoxin Guo, Dongxin He (Shandong University, China), Zhixiang Ling, Tao Zhang (State Grid Shandong, China), Haochen Wang, Qingquan Li (Shandong University, China)
P3-28-A	A Prediction Model for Power Frequency Breakdown Voltage of Transformer Oil Gap  Kang Wang, Guobin Wang, Jinglan Zeng, Bing Liu (State Grid Fujian Electric Power Co., Ltd., China ),  Yangyang Chen, Shengwen Shu (Fuzhou University, China)
P3-29-A	Partial Discharge Simulation of Air Gap Defects in XLPE Cable at DC Voltage  Zhe Zheng, Guohai Lin, Yalin Wang, Yi Yin (Shanghai Jiao Tong University, China)
P3-30-A	Simulation Study on Partial Discharge Production of XLPE Cable Considering Temperature Zeli Ju, Zhe Hou, Xiahaoyue Yun (State Grid Shaanxi Electric Power Company, China), Qian Wang, Sichen Qin, Qiming Xu (Xi'an University of Technology, China)
P3-31-A	Simulation Research on the Influence of WindingDeformation Degree on Transformer Magnetic Field Distribution and Winding Force Yuhui Zhai,Qingquan Li,Wenhao Gao (Shandong University, China)
P3-32-A	Simulation Measurement for Internal Temperature of Silicone Rubber during Surface Pollution Discharge Yuan Fu, Lianrong Pan, Peikai Li, Xin Wei, Daiyu Xie (Guangxi Power Grid Co., Ltd., China), Jikai Bi (South China University of Technology, China)
P3-33-A	Effects of Different Defects on the Electric Field Distribution of Insulation Rod for GIS  Chen Yun, Chengyao Hou, Xiaoxiao Kong, Yifang Wang, Lu Wang, Boxue Du (Tianjin University, China)
Wednesday	and Simulations  7, May 10, 2023 10:00 – 12:30  Ellery hall, 3rd F
P4-01-B	Study on Thermal Characteristics of High-specificEnergy Lithium-ion Batteries Based on the Simulation Modeling Yanbo Ding (Shenyang Institute of Engineering, China; Xavier University of Louisiana, USA), Daile Zhang, Donglai Wang, Hai Zhao, Yuhang Yue, Yaqi He (Shenyang Institute of Engineering, China)
P4-02-B	Capacity Prediction of Battery Pack in Energy Storage System Based on Deep Learning Ruiqi Liang, Zhipeng Yang, Zhengxiang Song, Kun Yang (Xi'an Jiaotong University, China)
P4-03-B	Simulation of Energy Storage Density and Energy Efficiency of Polyetherimide Composites by Modulating Charge Injection Characteristics Lingyu Yang, Daomin Min, Ziwei Gao, Xiaofan Song, Shihang Wang, Wenfeng Liu, Shengtao Li (Xi'an Jiaotong University, China)
P4-04-B	Simulation Study on the Surface Charge Accumulation Characteristics of Silicone Rubber Composite Insulators Zhenglong Jiang, Zhiyao Fu ( StateGrid Hunan Electric Power Company Disaster Prevention and Reduction Center, China), Xingshuo Song, Dexiong Hu, Feng Wang (Hunan University, China), Kai Ning (Changsha university of science &techlonoly, China)
P4-05-B	Numerical Simulation of Buoyant Bubble Dynamics in Dielectric Liquid Under Uniform Electric Fields Yuhan Sun, Qiaogen Zhang, Zhicheng Wu, Chong Guo, Shaoqi Wang, Rui Zhang (Xi'an Jiaotong University, China)



Poster	Sessions
P4-06-B	Numerical Investigation on the Effects of Electrical Parameter on a Nanosecond Pulsed Surface Dielectric Barrier Discharge
	Sijia Liang, Yuhuan Du, Yang Yu (Chongqing Jiaotong University, China)
P4-07-B	Tikhonov Regularization Algorithm for Thermal Pulse Method Data Analysis
Р4-07-В	Jingying Fang, Feihu Zheng, Shijie Chen, Yewen Zhang (Tongji University, China)
	Research on the Solution Method of Nonlinear Dielectric Equivalent Circuit Parameters Based on Particle
P4-08-B	Swarm Algorithm Improved by Genetic Algorithm
	Jianyu Hu, Zhonghua Li, Zuhui Li (Harbin University of Science and Technology, China)
	Finite Element Simulation on the Thermal Degradation of Silicone Rubber of Composite Insulator
	Xiangjun Zeng, Haofeng Zhang (Electric Power Research Institute China Southern Grid, China), Yuheng Ren
P4-09-B	(Shenzhen International Graduate School Tsinghua University, China), Yongsheng Xu (Electric Power
	Research Institute China Southern Grid, China), Fanghui Yin, Liming Wang (Shenzhen International
	Graduate School Tsinghua University, China)
	Prediction of Peak Curing Temperature of Epoxy Resin Based on RBF Neural Network
P4-10-B	Chuang Wang, Weiyu Zhu, Chi Chen, Zaiqin Zhang, Xu Li, Mingyu Mu (Xi'an Unversity of Technology,
	China)
	Optimization of Ventilation and Heat Dissipation Structure of Transformer Room in Prefabricated Substation
P4-11-B	Based on Multi-physics Coupling
	Pengqi Zuo, Jiaqi Huang, Pengqi Zuo, Feilong Wang (Tongji University, China)
	Research on Modularization Method of GIS Equipment Based on Population Genetic Algorithm
P4-12-B	Yunjie Liu, Fenghua Wang, Xiuchen Jiang, Gehao Sheng (Shanghai Jiao Tong University, China), Xiaoxin
	Chen (Zhejiang Electric Power Research Institute, China)
	Infrared Image Detection of Transmission Line Insulators Utilizing a CNN Combination Implemented With
	Small Sample Data Augmentation and Transfer Learning
P4-13-B	Yuepeng Xin, Yong Liu (Tianjin University, China), Xingwang Huang (Electric Power Research Institute
	State Grid Hebei Electric Power Company Limit, China), Zhihui Wang (Chengde Power Supply Company
	State Grid Jibei Electric Power Company Limited, China), Hongbao Zong (Power Cable Branch State Grid
	Tianjin Electric Power Company, China), Boxue Du (Tianjin University, China)
	Phase Change Cooled Encapsulation Material FC-72 Pyrolysis Process Simulation
P4-14-B	Chang Feng (Qinghai University, China), Shaonan Chen (Electric Power Research Institute of Guangxi Power
	Grid Co., Ltd, China), Peng Liu (Guangxi Power Grid Co., Ltd., China), Jinsheng Su (Qinghai Electric Power
	Company, China), Shaung Zhou, Dongmei Yang, Shouxiao Ma (Qinghai University, China)
P4-15-B	DC Magnetron Sputtering Particle Distribution and Energy Simulation Study
	Yuwei Fu, Ji Peng, Mengsha He, Wen Shuai (Xi'an University of Technology, China)
P4-16-B	Finite Element Analysis of Surface Abrasion Defect of Main Insulation for HV Motor Stator Winding
	Xin Wang, Lingyan Lin, Ailiang Kang, Zhanqing Chen, Lu Li (Taiyuan University of Technology, China)
	Numerical Model of Bubble Evolution in Oil-paper Insulation Based on Bubble Dynamics
P4-17-B	Yu Huang (Changsha University of Science and technology, China), Yingting Luo, Mo Shi, Qiang Yang
. –	(Electric Power Research Institute Guangdong Power Grid, China), You Zhou, Kehan Luo (Changsha
	University of Science and technology, China)



	Snangnai, China
Poster	Sessions
P4-18-B	Study on the Adsorption of SF6 and Its Major Superheated Decomposition Products on the Surface of Al (1 1 1)
	Shiling Zhang (Chongqing Electric Power Research Institute, China), Kexin Zhu, Haotian Li (Wuhan
	University, China), Qiang Yao (Chongqing Electric Power Research Institute, China), Ju Tang, Fuping Zeng
	(Wuhan University, China)
	Decomposition Properties of CF3I- the Alternative Gas for SF6
P4-19-B	Fanyi Cai, Baijie Zhou (State Grid Electric Power Research Institute, China), Dongxian Tan (Shanghai
	Wenyou Industrial Co., Ltd, China), Su Zhao (Shanghai Jiao Tong University, China), Ji Liu (NARI Group
	Corporation, China)  Effort of Dilute Overson on Mobility of Position Langlin Nitrogen
P4-20-B	Effect of Dilute Oxygen on Mobility of Positive Ions in Nitrogen  Po Vv. Vonchui Wv. Tangtong Ho. Vyvechang Thang (Fyrkhau University, China)
	Bo Yu, Yonghui Wu, Tongtong He, Yuesheng Zheng (Fuzhou University, China)  Study on the Tomperature Distribution Characteristics of SE6 Gas in GIS Based on Multi-physical Field
P4-21-B	Study on the Temperature Distribution Characteristics of SF6 Gas in GIS Based on Multi-physical Field Coupling
F4-21-D	Huan Chen, Haotian Wang, Yuting Gao, Xutao Han, Junhao Li (Xi'an Jiaotong University, China)
	Ti3C2Tx as A Promising Gas Sensor Material for CS2: A Theoretical Study
	Long Li (Electric Power Research Institute of State Grid Chongqing Electric Power Company, China), Hao
P4-22-B	Qiu, Xiaoxuan Feng, Xianzong Chao (Wuhan University, China), Baojia Deng (Electric Power Research
	Institute of State Grid Chongqing Electric Power Company, China), Fuping Zeng (Wuhan University, China)
	Study of the Impact of X-Ray on Negative Needle-Plane Corona Discharge in Atmospheric Air
P4-23-B	Aotian Shang (Nanjing Institute of Technology, China)
	Active Suppression of Metal Particles in AC-GIL/GIS by Functionally Graded Spacers
	Boxue Du, Zhouyu Jin (Tianjin University, China), Zehua Wang (State Grid Tianjin Electric Power Company,
P4-24-B	China), Hucheng Liang (Tianjin University, China), Tian Chen (State Grid Jiangxi Electric Power Research
	Institu, China), Jianan Dong (Tianjin University, China)
D4 25 D	Surface Charge Accumulation on Epoxy Insulator with Metal Particle in C4F7N/CO2 Under AC Voltage
P4-25-B	Shuangying Li, Di Lu, Yu Gao, Wenqu Wang, Boxue Du (Tianjin University, China)
D4 26 D	Effect of Vibration on Surface Charge Accumulation with Metal Particle on DC GIS Insulator
P4-26-B	Di Lu, Yu Gao, Shuangying Li, Wenqu Wang, Xiaochen Yuan, Boxue Du (Tianjin University, China)
	Effect of Low Molecular Acid on Methanol Diffusion in Oil-paper Insulation Based on Molecular Dynamics
P4-27-B	Simulation
	Chuying Liu, Enze Zhang, Heng Zhang, Yiwen Luo, Xianhao Fan, Jiefeng Liu (Guangxi University, China)
	Simulation Analysis of Buried Depth State of Optical Fiber Composite Submarine Cable Based on
	Temperature Field Variation
P4-28-B	Yining Zhang (CSG EHV Power Transmission Company, China), Zhenjin Cen (EHV Transmission Company
	of China Southern Power Grid Co., Ltd., China), Peng Zhang, Qishun Li, Yanpeng Hao (South China
	University of Technology, China)
	Current Carrying Capacity of 66kV Wind Turbine Cable with High Thermal Conductivity
P4-29-B	Songtao Liu, Jin Li (Tianjin University, China), Jing Xu, Chuanbin Wang, Chongjun Tian, Pengfei Zou (Fast
	East Cable Co., Ltd, China), Wenbo Zhu (Electric Power Research Institute CSG, China), Yuhuai Wang,
	Boxue Du (Tianjin University, China)



Shanghai, China	
Poster	Sessions
P4-30-B	Broadband Impedance Spectroscopy Analysis Model for Cross-Bonded Cable Systems
	Wei Duan, Haofei Sun, Yong Sheng, Chong Wang (Electric Power Research Institute of State Grid Shaanxi
	Electric Power Company Limited, China), Xuefeng Zhao, Lu Pu (Electric Power Research Institute of State
	Grid Shaanxi Electric Power Company Limited, China), Jianfeng Liang, Gangduo Feng, Hanmeng Wang
	(Xi'an University of Technology, China)
	Simulation Study on the Behavior of Submarine Cable Suspension Span Section under the Effect of Ocean
D4 24 D	Current Scouring Yining Zhang (M&T Center CSG EHV Power Transmission Company, China), Peng Zhang
P4-31-B	(South China University of Technology, China), Jianbao Guo (M&T Center CSG EHV Power Transmission
	Company, China), Haotian Tan, Yanpeng Hao (South China University of Technology, China)
	Simulation and Analysis of Submarine Cable Based on Electro-Thermal-Flow Multi-physics Coupling
P4-32-B	Chengxu Tang, Lipeng Zhong, Tan Zeng, Bingxu Jiang, Dongduan Liu, Ruojie Cheng (Hunan University,
	China)
	Simulation of Induced Current in Water-blocking Buffer Layer of Corrugated Aluminum Sheathed Cable
P4-33-B	Shengtao Li, Jiuhui Zhao, Yang Feng (Xi'an Jiaotong University, China)
Poster Ses	
	nce of Insulating Material: Interface and charge
Wednesday	, May 10, 2023 14:00 – 16:30
Venue: Gal	lery hall, 3rd F
7.01	Migration of Space Charge Packet in Polypropylene Injected by Electron Beam Irradiation
P5-01-A	Jiaping Pan, Jun Li, FeiHu Zheng, Yewen Zhang (Tongji University, China)
	Study of Space Charge Behavior under AC-DC Compound Electric Field
P5-02-A	Danyang Xie, Jiandong Wu (Shanghai Jiao Tong University, China)
	Surface Charges Accumulation Characteristics of Epoxy/Glass Fiber Composites under DC Superimposed
	Harmonic Voltage
P5-03-A	Ji Liu, Longfei Zhang, Zhen Li, Zirui Mao, Shouming Wang, Minghe Chi (Harbin University of Science and
	Technology, China)
	Influence of Different Pressures on the Charge Accumulation Characteristics of Cable/Accessory
P5-04-A	Hanfeng Wang, Qiannan Xue (state grid xi'an electric power supply company, China), Shuai Li, Jie Ma
	(shaanxi ruistan electric Co., LTD, China), Chi Chen, Yanzhao Pei (Xi'an university of technology, China)
	Space Charge Distribution Characteristics under Ultralow Frequency Voltage in XLPE
P5-05-A	Qiang Li, Wenhao Li, Chunlin Hao (Tianjin University, China), Youcong Huang, Zhongnan Zheng (Electric
	Power Research Institute of Fujian Power Co., Ltd., China), Tao Han (Tianjin University, China)
	Temperature Effect on Space Charge Behavior of Polyimide Films under DC High Electric Field
P5-06-A	Haotian Shen, Jiandong Wu, Yi Yin (Shanghai Jiao Tong University, China)
	Grafting and Space Charge Characteristics of XLPE-g-Diacetone Acrylamide
P5-07-A	Kai Wang, Xindong Zhao, Jiaming Yang, Hong Zhao (Harbin University of Science and Technology, China)
	Surface Charging Behaviors on GIS Basin-type Insulators under AC-DC Composite Voltage
P5-08-A	Yuhuai Wang, Jin Li (Tianjin University, China), Xiaohui Duan, Jianwei Wei, Yaxiang Wang (Pinggao Group
10 00 11	Co., Ltd, China), Boxue Du (Tianjin University, China)
	Co., Dia, Cinia), Donac Da (Tianjin Cinversity, Cinia)



	Snangnai, Cnina
Poster	Sessions
P5-09-A	Transfer Matrix for Space-charge Analysis of Insulating Systems with Complex Geometries
	Xiaoxin Li, Yeounguk An, Tomohiro Kawashima, Yoshinobu Murakami, Naohiro Hozumi (Toyohashi
	University of Technology, Japan)
P5-10-A	The Relationship between Space Charge and Prestressing Breakdown in Thin Metallized BOPP Film
15 10 11	Jiachen Li, Shijie Chen, Yuxiao Yang, Yewen Zhang (Tongji University)
	Moisture Content Affecting Electrical Treeing ProcessinEpoxyand Glass Fiber Reinforced Epoxy Resin
	Hein Htet Aung, Jin Li (Tianjin University, China), Renyong Zhao (State Grid Shandong Electric Power
P5-11-A	Company, China), Tianhui Li (State Grid Hebei Electric Power Research Institute, China), Chen Rong (State
13 11 11	Grid Tianjin Electric Power Research Institute, China), Chen Yun (China Electric Power ResearchInstitute,
	China), Songtao Liu (Tianjin University, China), Jin He (State Grid Tianjin Electric Power Research Institute,
	China), Boyuan Cui (China Electric Power Research Institute, China)
	Improved Mechanical and DC Electrical Properties of PP/PE Blend by Grafting
P5-12-A	Manzhi Shao, Jiaming Yang, Chunyang Li, Hong Zhao, Xuan Wang, Xindong Zhao (Harbin University of
	Science and Technology, China)
	Thermocycling Ageing of EP/Al2O3 Micron Composites: Phenomena and Insight
P5-13-A	Dongxu An, Haoran Sui, Jian Gao, Xiaopeng Zha, Kai Yang, Fusheng Zhou, Kangning Wu, Jianying Li
	(Xi'an Jiaotong University, China)
D5 14 A	Improvement of Electrical Properties of Metal-Insulator Interface Based on Ar/HMDSO μ-APPJ
P5-14-A	Xiuhan Guan, Wanyue Xiong, Liyan Wang, Xi Zhu, Zhi Fang (Nanjing Tech University, China)
	Enhancement of Hydrophobic Properties of Epoxy Resin by Large Area Dielectric Barrier Discharge Plasma
P5-15-A	Treatment Device
	Yu Zhu, Jialiang Huang, Shijia Guo, Liang Guo, Weicheng Yu, Zhi Fang (Nanjing Tech University, China)
D7 16 4	Promotion on Surface Charge Dissipation by Surface Functionally Graded Modification of SDBD
P5-16-A	Fangsong Li, Pengfei Wei, Jincheng Chu, Xi Zhu, Zhi Fang (Nanjing Tech University, China)
	Surface Insulation Performance Improvement of the Ceramics with Dielectric Barrier Discharge
P5-17-A	Chengshuo Huang, Yangyang Zhou, Xi Zhu, Xinglei Cui, Zhi Fang (Nanjing Tech University, China)
	Effects of Plasma Treatment on Interfacial Properties of Aramid Fiber Reinforced Epoxy for Insulation Rod
P5-18-A	Boxue Du, Rundong Xue, Yun Chen, Xiaoxiao Kong (Tianjin University, China), Boyuan Cui (China Electric
	Power Research Institute, China), Yifang Wang (Tianjin University, China)
	Investigation on the Effect of Insulation Material Formulation and Coating Thickness on the Insulation
	Performance of Epoxy-Metal Interface in Sandwich Structure
P5-19-A	Lin Liu, Yanpeng Hao, Hongru Mi, Shenglong Huang, Licheng Li (South China University of Technology,
	China), Fusheng Zhou, Chao Gao, Yun Yang, Guoli Wang (China Southern Power Grid, China)
	Pressure Dependence of XLPE/SiR Interfacial Breakdown Behavior
P5-20-A	Delun Yi, Haoyue Jiang, Yingying Zheng, Ke Zhang, Kangning Wu, Jianying Li (Xi'an Jiaotong University,
	China)
	Analysis of Passivation Layer Interface Charge Induced Blocking Capability Degradation in Thyristor
	Yansheng Zou (Electric Power Research Institute CSG EHV Power Transmission Company, China), Lingfeng
P5-21-A	Li (University of Electronic Science and Technology of China, China), Kai xiao, Ning Liang (Electric Power
	Research Institute CSG EHV Power Transmission Company, China), Xuan Li, Xiaochuan Deng (Institute of
	Research institute C50 E11v 1 ower Transmission Company, China), Auan El, Alaochuan Deng (institute of



# IEEE International Conference on Electrical Materials and Power Equipment May 7th-10th, 2023

Shanghai, China

Poster	Sessions
	Electronic and Information Engineering in Guangdong, University of Electronic Science and Technology of China) China
P5-22-A	Morphology Evolution and Breakdown Mechanism of XLPE–SiR Interface Induced by Silicone Grease Diffusion Zerui Li, Kai Zhou (Sichuan University, China)
P5-23-A	Interfacial Breakdown and Resistivity Characteristics of Cable Joints under Different Temperatures Kai Wu (Anhui Electric Power Company of State Grid, China), Tianfeng Zhang, Yunxiao Zhang (Fuzhou University, China), Zenghui Zhang (Fujian Agriculture and Forestry University, China), Wenxin Lin, Zhengnan Chi (Fuzhou University, China)
P5-24-A	Comparisons of Electrical Properties of Polycarbonate and Epoxy Resin under Electrical-Thermal Aging Shuning Duan (China Electric Power Research Institute, China), Yucheng Zhang, Wendong Li, Xin Zhao, Wenrui Li, Chao Wang, Guanjun Zhang (Xi'an Jiaotong University, China)
P5-25-A	Effect of organic montmorillonite on the water-tree aging properties of XLPE/OMMT nanocomposite dielectrics  Yuan Gao, Ruixue Dong, Xiufeng Li, Zhengdi Liu, Haoze Li (Shandong University of Technology Zibo, China), Yan Zhou (Shandong Jinda Cable CompanyZibo, China)
P5-26-A	Effect of Dielectric Coating on Breakdown Strength in High Pressure SF6 Chuyu Sun (Xi'an Jiaotong University, China), Haiyang Wang, Linshen Xie (Northwest Institute of NuclearTechnology, China)
P5-27-A	Fabrication of Multidimensional FunctionallyGraded Insulator for HVDC GIS  J. N. Dong, H. C. Liang, Z. Y. Jin, B. X. Du, H. Yao, Z. J. Guo (Tianjin University, China)
P5-28-A	Electric Field Regulation of Multi-Dimensional Functionally Graded Materials for GIS Spacer under DC and AC Voltages  Hang Yao (Tianjin University, China), Zehua Wang (State Grid Tianjin Electric PowerCompany, China),  Boxue Du, Hucheng Liang, Jianan Dong (Tianjin University, China)
P5-29-A	Parameter Design of Surface Functionally Graded Materials for HVDC GIL Spacer under Variable Temperature Gradient Hang Yao, Boxue Du, Hucheng Liang, Jianan Dong, Zhouyu Jin (Tianjin University, China)
P5-30-A	Analysis of Novel Superparamagnetic Nanoparticles for Achieving Better Self-Healing Insulating Materials Lu Han, Qi Li, Jinliang He (Tsinghua University, China)
P5-31-A	Study on the Self-Healing Properties of Electric Tree Branches Containing Dynamic Chemical Bond Epoxy Resin Shuang Jian Wang, Ting Xin Chen, Chun Song Chen, (China University of Petroleum (East China, China)
P5-32-A	Study on the Nonlinear Dielectric Properties of SiC/LDPE Composites under Different Electric Fields and Temperatures  Jinjiang Pang, Wenmin Guo, Huan Zheng, Xinyu Wang, Zhonghua Li (Harbin University of Science and Technology, China)
P5-33-A	The Mechanism of DC Breakdown of EP/TiO2 Nanocomposites at Elevated Temperature  Zhen Li (Xi'an Jiaotong University, China), He Gao, Ji Liu (Harbin University of Science and Technology,  China), Shengtao Li (Xi'an Jiaotong University, China)



	Shanghai, China
Poster	Sessions
	Effect of Grafting Maleimide on the DC electrical Properties XLPE at Various Temperatures
P5-34-A	Xu Yang, Kai Wang, Chunyang Li, Xin Dong Zhao, Chengcheng Zhang, Hong Zhao, Xuan Wang (Harbin
	University of Science and Technology, China)
	Effect of Nanoparticle Type on Charge Transport Characteristics of LDPE/Micro-BN composite with High
P5-35-A	Thermal Conductivity
	Chenyi Guo, Jing Li, Yu Gao, Baixin Liu, Boxue Du (Tianjin University, China)
Poster Se	nce of Insulating Material: Dielectric Properties and Aging
-	y, May 10, 2023 14:00 – 16:30 lery hall, 3rd F
DC 01 D	Study on Properties of Precipitated and Fumed Silica Seinforced Polydimethylsiloxane Silicone Rubber
P6-01-B	Zhenglong Jiang, Zhiyao Fu, Kai Ning (Changsha university of science & techlonoly, China)
	Influence of Temperature on Thermal and Electrical Conductivities for PP/Elastomer/BN Nanocomposite
P6-02-B	Jing Li, Yu Gao, Chenyi Guo, Baixin Liu, Boxue Du (Tianjin University, China)
	Effect of Delocalized Structure on Voltage Stabilizer to Improve Electrical Performance of Cross-linked
	Polyethylene
P6-03-B	Zelin Hong, Fanbo Meng, Tianyin Zhang, Muhammad Awais (Zhejiang University, China), Ashish Paramane
	(National Institute of Technology Silchar, India), Xiangrong Chen (Zhejiang University, China)
	Electrical Conductivity Comparison Between Two Preparing Methods for Graphene/Copper Composite
	Ruoyu Xu, Mingyu Zhou, Yuzhen Zhou, Haitian Wang, Yi Luo, Tobias Fechner (Global Energy
P6-04-B	Interconnection Research Institute Europe GmbH, Germany), Yi Ding, Yu Han, Zhixiang Zhu (State Grid
10 04 B	Smart Grid Research Institute Co. Ltd., China), Jinbo Bai (CentraleSupelec 'Laboratory of Mechanics,
	Structures and Materials, France)
	Analysis on Dielectric Properties of NaCl Solution by Establishing a Double Fourier Approximation with
	Respect to Temperature and Frequency
P6-05-B	Xiaoyuan Song, Lisheng Zhong, Meng Zhang, Hongxin Gong, Minchen Qiu, Jinghui Gao (Xi'an Jiaotong
	University, China)
P6-06-B	The Time Evolution of Electrical Properties of Dielectric Elastomers with Different Pre-strain Ratio
	Lijuan Yin, Huiyi Hu, Wenzhuo Dong (Tsinghua University, China)
	Recycling of Anhydride-Cured Epoxy Resin Through Alcoholysis and Its Insulation Property after Re-
P6-07-B	Preparation
	Xin Zhao, Wendong Li, Yucheng Zhang, Wenrui Li (Xi'an Jiaotong University, China), Shuning Duan (China
	Electric Power Research Institute, China), Guanjun Zhang (Xi'an Jiaotong University, China)
	Crystal Transformation Affecting DC Conductivity and Breakdown Strength of Annealed PP Cable Insulation
P6-08-B	with β-nuclear Agent
	Yaqing Zheng, Zhonglei Li, Guoning Sun, Boxue Du (Tianjin University, China), Youjian Xi, Canfeng Song
	(Kun Ming Cable Group CO. LTD, China)
P6-09-B	Study on Conductivity Characteristics of LDPE/SiO2 Nanocomposite at High Temperature
	Yangruisi Li, Jiandong Wu, Yi Yin (Shanghai Jiao Tong University, China)



## **IEEE International Conference on Electrical Materials and Power Equipment**

May 7th-10th, 2023 Shanghai, China

Poster Sessions	
P6-10-B	The Correlation Mechanism that Micro-Structure Parameters of ZnO Varistor to the Macroscopic Electrical Characteristics
	Pengfei Meng, Jingke Guo (Sichuan University, China), Long Zhao (State Grid Linyi power supply company,
	China), Wenhao Lu (Extra High Voltage Power Transmission Company of CSG, China), Zheng Liu
	(Northwest Institute of Nuclear Technology, China), Shan Li (State Grid Linyi power supply company,
	China), Kai Zhou (Sichuan University, China), Jun Hu (Tsinghua University, China)
	Effect of Synergistic Reduction of Dicumyl Peroxide and Antioxidant Content on Crosslinking Characteristics
	of XLPE
P6-11-B	Zhicheng Si, Jiacai Li (Xi'an Jiaotong University, China), Zhi Xu (State Grid Shanghai Municipal Electric
	Power Company, China), Shihang Wang, Shengtao Li (Xi'an Jiaotong University, China), Jiajun Liu (State
	Grid Shanghai Municipal Electric Power Company, China)
P6-12-B	Method and Application of Aging with Gradient Fields for Flake XLPE Samples
	Ming Wang, Li Zhang, Changhai Sun, Yunlong Sun (Dalian University of Technology, China)
	Effect of Crystalline Morphology on Electrical Tree Growth Characteristics of PP Insulation
P6-13-B	Famin Dai, Zhonglei Li, You Wu (Tianjin University, China), Canfeng Song, Youjian Xi (Kunming Electric
	Cable Co., Ltd. Kunming Cable Group, China), Boxue Du (Tianjin University, China)
P6-14-B	Electrical Aging of Epoxy based Nonlinear Resistive Field Grading Material
	Yongsen Han, Chenguang Zhao (Harbin University of Science and Technology, China)
P6-15-B	Effect of Temperature on Electric Field Distortion in LDPE/SiO2 Nanocomposite under DC Field
	Xuebei Wang, Jiandong Wu, Yi Yin (Shanghai Jiao Tong University, China)
P6-16-B	Frequency-domain Characteristics of Loss Current in XLPE with Conductor Spike Defect
	Yan Zhao, Shusheng Zheng, Ju Kong, Xiaohu Yan (North China Electric Power University, China)
	Study on Surface Yellowing Behavior of White Low Smoke Halogen-Free Flame Retardant Polyolefin
	Insulating Material
D ( 4 = D	Chunfeng Wang (Harbin University of Science and Technology, China), Jialong Zhou (Zhongtian Technology
P6-17-B	Industrial Wire & Cable System Co., Ltd., China), Guangliang Wang (Harbin University of Science and
	Technology, China), yongliang Wan (Harbin University of Science and Technology, China), Bin Liang
	(Zhongtian Technology Industrial Wire & Cable System Co., Ltd., China), Zhidong Han (Harbin University of
	Science and Technology, China)
	On the Dielectric Properties of Liquid Silicone Rubber under Different Thermal Aging State for Dry-type
DC 10 D	Transformer  Description of the China Chin
P6-18-B	Boxue Du (Tianjin university, China), Yongping Ho (Tianjin university, China), Xiaoxiao Kon (Tianjin university, China), Chana (Tianjin university, China), Xiaoxiao Kon (Tianjin university, China),
	university, China), Chong Zhang (Tianjin university, China), Xiaohui Chen (Tianjin university, China), Qiang
	Fu (Electric Power Research Institute of Guangdong Power Grid Co., Ltd., China)  The Effect of High low Temperature Cycle Againg on Machanical Properties of Silicone Pubber under
	The Effect of High-low Temperature Cycle Ageing on Mechanical Properties of Silicone Rubber under Tensile State
	Chao Wu (Xi'an Jiaotong University, China), Zhe Miao (Xi'an Jiaotong University, China), Xia Wang (Xi'an
P6-19-B	Jiaotong University, China), Yanlin Zhang (CRRC Zhuzhou Electric Locomotive Co., Ltd., China), Zhenbao
	Chen (CRRC Zhuzhou Electric Locomotive Co., Ltd., China), Yanhua Yang (CRRC Zhuzhou Electric
	Locomotive Co., Ltd., China)
	Locomouve Co., Liu., Ciina)

# ICEMPE 2023 IEEE Internations May 7th-10th, 202

Poster	Sessions
P6-20-B	Effect of POE Content on Properties of Polypropylene based Semiconductive Shielding Material for Cable Wenbo Zhu (China Southern Power Grid Electric Power Research Institute, China), Shuai Hou (China Southern Power Grid Electric Power Research Institute, China), Baojun Hui (China Southern Power Grid Electric Power Research Institute, China), Yunpeng Zhan (China Southern Power Grid Electric Power Research Institute, China), Mingli Fu (China Southern Power Grid Electric Power Research Institute, China), Jiasheng Huang (Guangzhou Power Supply Bureau of Guangdong Power Grid Co., Ltd., China)
P6-21-B	Effect of Shear Rate and Aramid Solution Concentration on the Properties of Precipitation Fibers Wang Lu, Huang Meng, Yao Yuanxin (North China Electric Power University, China)
P6-22-B	Preparation of rGO/NiO Composites by Nanosecond Pulsed DBD and Its Electrochemical Properties Longhui Zhang, Yang Zhou, Shuhao Li, Yulei Zhao, Feng Liu, Zhi Fang (Nanjing Tech University, Chin)
Р6-23-В	KH560-SiO2/PI Insulating Paper Preparation and Characterisation  Minghe Chi, Xue Sun, Xiaorui Zhang, Yang Yu, Chunhun Liu, Jiahao Shi (Harbin University of Science and Technology, China)
P6-24-B	Competition between Tensile and Compressive Stresses on Electrical Tree Growth in Epoxy Resin Wenjin Zhang (Tianjin university, China), Boxue Du (Tianjin university, China), Hucheng Liang (Tianjin university, China), Liucheng Hao (Pinggao Group Co., Ltd, China), Yaxiang Wang (Pinggao Group Co., Ltd, China), Duanpeng Yuan (Pinggao Group Co., Ltd, China)
P6-25-B	Stretchable and High Thermally Conductive Boron Nitride Nanosheet/Poly (Thioctic Acid) Nacre-Like Nanocomposites for Thermal Management Applications  Wenzheng Jiang (Shanghai Jiao Tong University, China), Shaojing Wang (Shanghai Jiao Tong University, China), Peng Xu (Shanghai Jiao Tong University, China), Xiangyi Xu (State grid Shanghai municipal electric power company, China), Pingkai Jiang (Shanghai Jiao Tong University, China), Xingyi Huang (Shanghai Jiao Tong University, China)
P6-26-B	Effect of Ozone Aging on Breakdown Strength and Mechanical Properties of Polylactic Acid Wende Jin (State Grid Zhejiang Electric Power Co., LTD., China), Jia Feng (State Grid Zhejiang Electric Power Co., LTD., China), Rongguo Huang (State Grid Zhejiang Electric Power Co., LTD., China), Bin Du (Hefei University of Technology, China)
P6-27-B	Construction of a Charge Barrier to Improving the High-temperature Energy Storage Performance of Polymer Composite Zhaotong Meng, Tiandong Zhang, Changhai Zhang, Qingguo Chi (Harbin University of Science and Technology, China)
P6-28-B	N-rich Biomass Carbon Derived from Pine Needles as Anode for High-performance Lithium-ion Batteries Mingbo Gao, Saisai Qiu, Xinqi Liang, Yi Tang, Tianyuan Yin, Minghua Chen (Harbin University of Science and Technology, China)
P6-29-B	Characteristic Evaluation of BOPP Capacitor after Winding Process with Mechanical Stress Huize Cui (Beijing Institute of Smart Energy, China), Zhaoliang Xing (Beijing Institute of Smart Energy, China), Chong Zhang (Beijing Institute of Smart Energy, China), Shaowei Guo (Beijing Institute of Smart Energy, China), Yaotian Su (Beijing Institute of Smart Energy, China), Hailong Zhang (Wuhan Nari Limited Liability Company Of State Grid Electric Power Research Institute, China)
P6-30-B	Crystallization Time-Dielectric Property Relationship in the Modified Polypropylene for Metallized Film Capacitors Yishuo Zhao, Meng Xiao, Boxue Du (Tianjin University, China)



Poster	Sessions
P6-31-B	Dielectric Property Optimization of Polypropylene Based All Organic Capacitor Film under High Magnetic
	Field
	H. L. Liu, B. X. Du, Meng Xiao (Tianjin University, China)
Р6-32-В	Energy Management Circuit Based on Triboelectric Nanogenerator
	Yulong Yang, Ziren Huang, Zhiye Du, Pengfei Zhao (Wuhan University, China)
P6-33-B	High Performance Core-shell Structured PMMA/PVDF-TrFE Nanofibers for Piezoelectric Nanogenerators
	and Self-powered Devices
	Bin Chai (Shanghai Jiao Tong University, China), Shaojing Wang, Peng Xu, Xiangyi Xu ( (State grid
	Shanghai municipal electric power company, China), Pingkai Jiang, Xingyi Huang (Shanghai Jiao Tong
	University, China)
P6-34-B	Research on the Characteristics of Liquid Metal Materials Based on Material Stadio
	Wei Peng, Guoqiang Gao, Yaguang Ma, Yu Xiang, Bingyan You (Southwest Jiaotong University, China),
	Liting Yan (State Grid Shanxi Electric Power Company, China), Aozheng Wang, Guangning Wu (Southwest
	Jiaotong University, China)
P6-35-B	Hierarchically Porous Metal-organic Framework Composite for Heat Dissipation of Electronic Devices
	Xiangyu Liu, Pingkai Jiang, Xingyi Huang (Shanghai Jiao Tong University, China)