

IWAIS 2011
The 14th International Workshop on
Atmospheric Icing of Structures
May 8 -13, 2011, Chongqing, China

Paper Summary



Organized by

Chongqing University, China
State Key Lab of Power Transmission Equipment
& System Security and New Technology, China



Co-organized by

University of Québec in Chicoutimi (UQAC)
China Electric Power Research Institute
Electric Power Research Institute, CSG
China Chongqing Electric Power Corporation
Hunan Electric Power Test and Research Institute
Southwest Electric Power Design Institute



Sponsored by

National Natural Science Foundation of China
State Grid Corporation of China
China Southern Power Grid
Chongqing Society for Electrical Engineering



Technically supported by

Chinese Society for Electrical Engineering
Journal of High Voltage Engineering



TABLE OF CONTENTS

Keynote Speeches

K1: Investigations on Icing Performance and De/Anti-icing Methods of Overhead Transmission Lines Based on Observations at Xuefeng Mountain Natural Icing Station

Prof. Jiang Xingliang, College of Electrical Engineering, Chongqing University, China

K2: Progress Report on IEEE Standards and CIGRE Activities with Respect to Icing of Overhead Lines

Prof. Masoud Farzaneh, University of Quebec at Chicoutimi, Canada

K3: Cross-fertilizing the Technologies of Atmospheric Icing on Structures and In-flight Structural Icing

Prof. W.G. Habashi, McGill University, Montréal, Canada

Oral Session A1

A1_1_ID83: Incorrect Wind Measurement Due to Icing on Heated Ultrasonic Anemometer

Shigeo Kimura, Hiroshi Morikawa, Takeshi Sato, Yoichi Yamagishi and Tetsuya Kojima, Japan

A1_2_ID4: Study on Diameter Correction Coefficient of the Icing Thickness of the Conductors

Jiang Xingliang, Chao Yafeng, Bi Maoqiang, Chen Ling, Zhang Zhijin and Shu Lichun, China

A1_3_ID25: WIRE: Weather Intelligence for Renewable Energies

Alain Heimo, René Cattin and Bertrand Calpini, Switzerland

A1_4_ID139: Transmission Lines Malfunction Imbalance Tension Trend Monitoring and Tilt Monitoring Device of Research

Lu Jiazheng, Luo Jing, Zhang Hongxian, Li Bo, Fang Zhen, China

A1_5_ID158: Relevance of ISO Ice Classes to Tower Structures

Lasse Makkonen, Pertti Lehtonen and Mika Hirviniemi, Finland

A1_6 : Ice Accidents and Anti/De-icing Measures in China Southern Grid, China

China Southern Power Grid, China

Oral Session B1

B1_1_ID89: Towards a High-resolution Icing Climatology In Sweden

Esbjörn Olsson, Per Undén, Ulf Andrae, Hans Bergström, Petra Thorsson and Stefan Söderberg, Sweden

B1_2_ID82: Simulation Analysis of Bundled Conductors and Spacer-dampers in a Typical 500kV Transmission Line during DC Ice-melting

Li Weiguo, Hao Yanpeng and Xiong Guokun, China

B1_3_ID106: Sweden's Bold Activities in Measurements and Mapping of Icing and De-icing of Wind Turbines

Goran Per Rune Ronsten, Sweden

B1_4_ID156: Optimum Return Period of an Overhead Line Considering Reliability, Security and Availability with Respect to Extreme Icing Events

Asim Haldar, Canada

B1_5_ID161: A UK Probabilistic Wind/Ice Map

Brian Wareing and Svein M Fikke, UK

Oral Session C1

C1_1_ID9: Comparative Performance of Conventional 220kV Insulator Strings and Multi-Chamber Insulator Arresters Strings Under Specific Ice Conditions of Russia

Igor Gutman and Georgij Porporkin, Sweden

C1_2_ID48: Comparative Study on Icing State and AC Flashover Performance between Composite Insulators under Energized and Non-energized Icing Condition

Hu Qin, Wang Xiaofeng, Shu Lichun, Jiang Xingliang and Li Te, China

C1_3_ID101: Icing Flashover Characteristics of Insulators Strings with Different Alternating Sheds

Su Huafeng, Li Zhining, Jia Zhidong, Guan Zhicheng, Li Licheng, Zhou Jun, Gao Haifeng China

C1_4_ID12: Comparison of DC Icing Flashover Performances for Pre-polluted Short Samples of Composite Insulators with Different Configuration in High Altitude Area

Jiang Xingliang, Muhammad Tariq Nazir, Chao Yafeng, Chen Ling, Zhang Zhijin and Sun Caixin, China

C1_5_ID154: Influence of Ice Thickness on DC Flashover Voltage of Ice Covered Insulation String

Li Qingfeng, Li Xudong, Gao Haifeng, An shan and Tong Yuliang, China

C1_6 Introduction of Power Grid Design in Icing Areas (having made an appointment)

Southwest Electric Power Design Institute, China

Oral Session A2

A2_1_ID88: Validation of Icing Measurements

P. Thorsson, S. Söderberg and H. Bergström, Sweden

A2_2_ID73: A New Method for Measuring Vertical Ice Adhesion Strength

Wang Guogang, Mu Jingjing, Zhou Hongwei and Liu Zhenqiang, China

A2_3_ID149: LAPS-LOWICE: A Real-time System for the Assessment of Near-surface Icing Conditions

Ben C. Bernstein, Ian Wittmeyer, Erik Gregow and Jarkko Hirvonen, USA

A2_4_ID111: Expert System of Icing and Anti-icing on Wires in Freezing Rain

Liu Heyun, Gu Xiaosong and Wang Hanqing, China

A2_5_ID211: The Mechanical Model of Overhead Transmission Lines and a Novel Iteration Algorithm for the Icing Monitoring via Fiber Optic Sensors

Cao Yongxing, Zhang Ran, Xue Zhihang, Zhang Changhua(IEEE Member) and Huang Qi(IEEE Senior Member), China

A2_6_ID131: Integrated Anti-fog Monitoring Methods of Power Transmission Line Ice Covering

Lu Jiazheng, Xu Xunjian, Luo Jing, Zhang Hongxian, Li Bo and Fang Zhen, China

Oral Session B2

B2_1_ID90: The WOLF System: Forecasting Wet-snow Loads On Power Lines in Italy

Matteo Lacavalla, Paolo Bonelli, Gilberto Mariani, Pietro Marcacci and Giuseppe Stella, Italy

B2_2_ID229: Study on Characteristics of Atmospheric Layer's Temperature Change in the Sleet

Weather Process in 2008

Wan Xiecheng, Liu Tiantian, Liao Chunhua and Xiao Sheng, China

B2_3_ID107: Climatic Loads Assessment for OHL Design Using Ice-load Maps

Sergey Cheresniuk, Larisa Timashova and Vladimir Lugovoi, Russia

B2_4_ID157: A Predictive Indicator of Icing Damage Risk

Petr Musilek, Afsaneh Esteki and Edward Lozowski, Canada

B2_5_ID163: A Computational Aeroelastic Approach to Predict Galloping of Iced Conductors with Three Degrees of Freedom

Amir Borna, Wagdi G. Habashi, Siva K. Nadarajah and Ghyslaine McClure, Canada

Oral Session C2

C2_1_ID26: Development of Flashover Voltage Test Method for Snow Accreted Insulators -Preliminary Test with 33kV Class Insulator Samples-

Hiroya Homma, Kohei Yaji, Gaku Sakata and Teruo Aso, Japan

C2_2_ID59: Flashover Performance of 330kV Ice-covered Composite Insulators of Different Shed Profiles

Hu Jianlin, Xie Xiuyu, Jiang Xingliang, Shang Yu, Tan Zhihong and Sun Caixin, China

C2_3_ID186: DC Flashover Performance of Insulators under Icing Conditions

S. Taheri, M. Farzaneh, C. Potvin and I. Fofana, Canada

C2_4_ID119: Icing Flashover Characteristics of EHV Transmission Line Insulators under Sever Icing

Chen Yong, Shi Yan, Wan Qifa, Xu Zuoming, Xu Tao, Yao Tao and Ma Shaoshi, China

C2_5_ID155: DC Flashover Performance of Iced Insulator Strings with Insulator Variety Structures

Gao Haifeng, Li Qingfeng, An Shan, Li Xudong and Tong Yuliang, China

Oral Session A3

A3_1_ID61: Evaluation of Snow Accretion Properties of Insulators by Field Observation and Artificial Test-focusing on Packed and Wet Snow Condition-

Kohei Yaji, Hiroya Homma, Gaku Sakata and Akira Takahashi, Japan

A3_2_ID51: Research on the Calculation of Deviation Angle of Icicle Build-up on Insulators and Its Influential Factor

Shu Lichun, Yang Zhangang, Jiang Xingliang, Hu Qin and Fan Xuehai, China

A3_3_ID162: Icing Measurements at Deadwater Fell Test Site

Brian Wareing, UK

A3_4_ID117: An Experimental Study of the Icing Process within Small Water Droplets Impinging onto a Frozen Cold Plate

Jin Zheyang and Hu Hui, China

A3_5_ID176: Simulations vs. Observations of Supercooled Cloud Liquid Water at Ground Level; Sensitivity to Model Resolution and Cloud Microphysics Parameterizations

Bjørn Egil K. Nygaard, Jón Egill Kristjánsson and Lasse Makkonen, Norway

Oral Session B3

B3_1_ID57: Sea Spray Icing Profiles on Fixed Offshore Structures

Kathleen F. Jones, USA

B3_2_ID47: Prediction Model for Power Transmission Line Icing Load Based on Data-driven

Li Peng, Li Ning , Li Qimao , Cao Min and Chen Huoxing, China

B3_3_ID70: Numerical Simulation on the Ice-melting Process for High-current Wires

Liu Chun, Xie Yi, Lu Jiazheng and Jiang Zhenglong, China

B3_4_ID150: A Correction Method for CRREL Model to Estimate Ice-covered Value on Conductors

Zhu Kunjun, Liu Bin and Li Xinyu, China

B3_5_ID182: A Semi-empirical Icing Model for Energized Conductors

M. L. Lu and N. Popplewell, Canada

Oral Session C3

C3_1_ID67: The Method and Test of De-icing on Four Bundled-conductors by Leading Running Current into Various Sub-conductor Combinations

Zhang Zhijin, Bi Maoqiang, Jiang Xingliang, Huang Haizhou, Hu Jianlin and Sun Caixin, China

C3_2_ID5: Comparison between AC and DC Short-circuit-current Ice-melting Methods

Liang Liqing, Zhou Yazi, Zhang Jiwu , Xiao En and Zhao Shihua, China

C3_3_ID160: Some Solutions for Icing Prevention

M.L.Goia and L.Niculescu, Romania

C3_4_ID132: Research and Application of New AC/DC De-icing Devices in Hunan Power Grid

Tan Yanjun, Lu Jiazheng, Li Bo, Fang Zhen and Zhang Hongxian, China

C3_5_ID147: Modeling and On-site Experiments of Shunt Capacitor Compensation Method for Deicing of 66KV Power Line

Liu Gang, Zhao Xuezheng, Matti Lehtonen, Merkebu Degefa, Chen Yonghui, Jiang Shijin, Sun Lei, Liu Zijun and Liang Yan, China

Oral Session A4

A4_1_ID170: Technological Developments for the Study of Guy Cable Damage Induced By Atmospheric Icing on High Voltage Transmission Lines

D. Gagnon, G. Roberge, X. Zhang and G. McClure, Canada

A4_2_ID114: Observational Studies of Hunan Transmission Line Icing at Microtopography and Micrometeorological

Lu Jiazheng, Lin Biyan, Zhang Hongxian , Li Bo, Fang Zhen and Yang Li, China

A4_3_ID180: Comparison of Visibility Observations at a Meteorological Tower to Cloud Base Height Observations from Nearby Weather Stations

Jarkko Hirvonen, Ben C. Bernstein, Knut Harstveit, Ian Wittmeyer, Erik Gregow, Harri Portin and Ari Leskinen, Finland

A4_4_ID203: Shape Characteristic of Iced Conductor

Fan Songhai, Liu Ping, Li Jing and Jiang Xingliang, China

A4_5_ID231: Comparison between Simulations and Measurements of In-cloud Icing in Test Spans

Árni Jón Elíasson, Egill Thorsteins, Hálfðán Ágústsson and Ólafur Rögnvaldsson, Iceland

Oral Session B4

B4_1_ID63: Sea Spray Icing: In-cloud Evaporation. Semi-Analytical and Numerical Investigations.

Anton Kulyakhtin and Sveinung Løset, Norway

B4_2_ID103: Wind Tunnel Tests and Numerical Simulations on the Performance Effects of Icing on Wind Turbine Blade

Li Yan, Feng Fang, Kotaro Tagawa and Tian Wenqiang, China

B4_3_ID177: Experimental Study of the Influence of the Type of Material, Roughness and Temperature on Ice Adhesion

Zahira Ghalmi, Richard Menini and Masoud Farzaneh, Canada

B4_4_ID159: The Regression Model of Transmission Line Icing Based on Neural Networks

Sun Muxia, Dai Dong, Hao Yanpeng and Huang Xiaoting, China

B4_5_ID207: Numerical Simulation of De-icing and Ice Shedding on Multilayered Structures

Meng Fanxin, Ma Hui, Zhang Dalin and Chen Weijian, China

Oral Session C4

C4_1_ID116: A Novel Composite Insulator with Lightning Protection and Icing Flashover Prevention

Zhao Chun, Lu Jiazheng, Zheng Zhe, Jiang Zhenglong, Fang Zhen, Li Bo and Xie Pengkang, China

C4_2_ID118: Effect of Composite Assistant Shed on the Flashover Performance of Ice-covered Station Post Insulators

Xu Tao, Xu Zuoming, Wan Qifa, Chen Yong, Liu Yunpeng, Yao Tao and Shi Yan, China

C4_3_ID209: Conditions for Installation of Snow Accretion Countermeasures On Road Information Signs

O.Sakase, H.Matsushita and M.Matsuzawa, Japan

C4_4_ID143: Current State and Prospect of Study on De-icing of Power Transmission Lines Using Mechanical Devices

Yang Jialun, Zhu Kuanjun and Liu Bin, China

C4_5_ID213: The Method and Implementation of Icing and De-icing at Xuefeng Mountain Natural Icing Station

Zhang Zhijin, Jiang Xingliang, Huang Haizhou, Hu Jianlin and Sun Caixin, China

Poster Session #1

P1_01_ID8: Comparative Performance of Silicone Rubber and Porcelain Hollow Insulators under Specific Ice and Salt Fog Conditions of Iceland

Igor Gutman, Johan Lundengård, Nils Gustavsson and Anne Bosma, Sweden

P1_02_ID30: Calculation Method of Maximum Conductor Temperature and Maximum Allowable Current in Transmission Line Ice-melting With Short-circuit

Bai Yunqing, Mo Wenqiang, Wu Bin, Zhou Shu and Liu Yu, China

P1_03_ID50: Using Fitting Slope Method Predicting Icing Parameters Based on Ice Mass of Rotating Multi-conductors

Shen Qiang, Jiang Xingliang, Liu Chonghan, Kuang Jun and Dong Lina, China

P1_04_ID55: WRF Atmospheric Icing Validation for Mount Zao, Japan, during 19-29 April 2009

Evgeny A. Podolskiy and Bjørn Egil K. Nygaard, Japan

P1_05_ID58: Study on the Characteristics of Aerosol for Glaze Icing Manual Intervention

Song Tinglu, Li Xiaodong, Guo Xiaoyan, Yang Rongjie and Zhang Haoming, China

P1_06_ID64: Experimental Study on the Convection Heat Transfer of Air across Wires in the Icing Environmental Conditions

Zhang Zhanen, Liu Heyun, Li Yan and Gu Xiaosong, China

P1_07_ID66: Experimental Study on the Collection Coefficient of Power Line Icing

Li Yan, Liu Heyun, Zhang Zhanen and Gu Xiaosong, China

P1_08_ID93: In-cloud Icing Simulation with GEM-LAM Model

Yang Jing, Kathleen F. Jones, Yu Wei and Robert Morris, Canada

P1_09_ID71: Calculation Study on Ice-melting Implementation Strategy of Transmission Lines

Liu Chun, Xie Yi, Lu Jiazheng and Jiang Zhenglong, China

P1_10_ID76: Study of Snowdrift around Buildings of Antarctica Using Numerical Analysis

Y. Yamagishi, S. Kimura, K. Ishizawa, M. Kikuchi, H. Morikawa and T. Kojima, Japan

P1_11_ID77: Variations of Meteorological Factors Concerning Ice and Comprehensive Assessment in Southwest

Zhao Xiaomeng and Li Dongliang, China

P1_12_ID81: An Experimental Device Used to Measure Ice Nucleation Property of Pyrotechnics Formula

Zhang Haoming, Song Tinglu, Guo Xiaoyan, Li Xiaodong and Yang Rongjie, China

P1_13_ID110: Analyze on the Ice-covering Recurrence Interval of Power Grid Based on PSO Optimization

Yang Li, Zhang Hongxian, Lu Jiazheng, Li Bo and Jiang Zhenglong, China

P1_14_ID120: The Research of Icing Magnitude of Transmission Lines in Mountainous Region

Jin Xipin, China

P1_15_ID121: Analysis of Design Ice Thickness Value in Erlang Mountain

Wu Guoqiang, China

P1_16_ID122: Icing Observation and Analysis of the $\pm 800\text{kV}$ Ultra High Voltage Direct Current

Huang Zhizhou, China

P1_17_ID124: Ice Structure Analysis of the Erlang Mountain

Tan Rong, China

P1_18_ID80: On-line Monitoring System of Ice-covered Overhead Transmission Line Based on Mechanical and Inclination Angle Measurement

Sheng Gehao, Wang Kui, He Zhimin, Liu Yadong and Jiang Xiuchen, China

P1_19_ID141: The Design Principle of Anti-icing Insulator Based on Switch Effect and Gradual Change of Bushing Surface Resistivity

Deng Yu, Wei Xiaoxing, Su Huafeng, Xu Zhihai, Jia Zhidong and Guan Zhicheng, China

P1_20_ID145: Summarization of On-line Icing-monitoring Methods of Transmission Lines

Min Jianfeng and Hao Yanpeng, China

P1_21_ID166: Roughness Characteristics in Aufeis Morphology

Kazuto Ueno and Masoud Farzaneh, Canada

P1_22_ID167: Convective Heat Transfer Coefficient in Air/Liquid-water/Ice/Solid-wall Multi-phase System

Kazuto Ueno and Masoud Farzaneh, Canada

P1_23_ID188: The Ice Monitoring Technology of Transmission Lines

He Qing, Wang Tao, Jin Tao, Ruan Ling and Deng Wanting, China

P1_24_ID190: Icing Monitoring Technology of Transmission Lines

He Qing, Wang Tao, Jin Tao, Ruan Lin and Deng Wanting, China

P1_25_ID192: Pre-failure Diagnosis of Substation Electrical Equipment under Icing Condition and Preventive Techniques

Wang Tao, Ruan Ling, Deng Wanting, Zhu Changcheng and Wang Yongqin, China

P1_26_ID193: Anti-icing and Disaster-mitigating Coping Strategies for Hubei Power Grid

Wang Tao, Jin Tao, Liu Xingsheng, Ruan Ling and Lei Qingsheng, China

P1_27_ID194: Introduction of Anti-icing and Mitigation Researches Done by CEATI

Wang Ruizhen, Jin Tao and Wang Tao, China

P1_28_ID199: Icing Features of Wire in Chongqing Region

Li Yajun, Mo Wenqiang, Wang Haoyu, Du Zhen and Jiang Xingliang, China

P1_29_ID200: EHV Transmission Line Icing Analysis and Countermeasures Research

Zhao Xuesong, Chen Fangdong, Zhang Jifei, Chen Hua, Zhang Haijun, Zheng Jiangang, Guo Xinyang, Li Ning, China

P1_30_ID226: Experimental Study of Flow Characteristics around a Circular Cylinder with Different Ice Profiles

H. Banitalebi Dehkordi, M. Farzaneh and P. Van Dyke, Canada

P1_31_ID195: Anti-ice Shedding Technology of Transmission Line

Zhu Changcheng, Wang Tao and He Qing, China

P1_32_ID219: Experimental Study of Spray Characteristics and Its Uniformity under Different Icing Conditions

Hamid Banitalebi Dehkordi, Masoud Farzaneh, Laszlo E. Kollar and Pierre Van Dyke, Canada

P1_33_ID222: Reliability Investigation of Fiber Bragg Grating Sensors Used in Icing Monitoring of Overhead Power Lines

Luo Yingting, Ma Guoming, Li Chengrong, Jiang Jian and Cheng Yangchun, China

P1_34_ID227: A Comparison of Wind and Ice Loads for the Design of Transmission Lines

Seyedeh Nasim Rezaei and Luc Chouinard, Canada

P1_35_ID 228: Survey and Analysis of Flashover Accidents on Icing Insulators in EHV Transmission Lines in China

Ma Jun, Zha Qinhua, Luo Enyi, Sun Yujiang and MoWenqiang, China

P1_36_ID230: Application of the Composite Insulator with the Optic Fiber Sensors in Icing-monitoring of Overhead Transmission Lines

Meng Gang, Cai Wei, Chen Yong, Chen Xiaoyue, Fan Xilai and Xiong Peng, China

P1_37_ID232: Study of On-line Icing Monitoring System and Typical Case Analysis of Guangdong Power Grid

Wu Ya, China

P1_38_ID17: The Calculation of Electric Field along the Surface of 1100kV Station Post Insulator under Impulse Voltage Based on ANSYS

Yin Fanghui, Jiang Xingliang, Hu Jianlin, Xia Yunfeng and Dong BingBing, China

Poster Session #2

P2_01_ID3: Study on Imbalance Tensile Forces with Tower for Non-contemporaneous Ice Shedding

Tan Zhihong, Jiang Xingliang, Dong Bingbing, Sun Caixin and Hu Jianlin, China

P2_02_ID49: The Electric Field and Potential Distribution of Composite Insulator with Series Connection of Glass Insulator

Jiang Chilong, Sima Wenxia, Deng Jiazhao, Yang Qing and Yuan Tao, China

P2_03_ID52: Validation of the Equivalent Effect of Pollution Simulation Methods on DC Icing Flashover Voltage of Insulators

Jiang Xingliang, Chen Ling, Zhang Zhijin and Hu Jianlin, China

P2_04_ID53: Influence of Test Methods on DC Flashover Performance of Ice-covered Composite Insulators

Bi Maoqiang, Jiang Xingliang, Zhou Fangrong, Chen Ling, Chao Yafeng, Lan Qiang and Muhammad Tariq Nazir, China

P2_05_ID72: Comparative Analysis on Thermal Efficiency in AC/DC-Based De-icing

Liu Chun, Xie Yi, Lu Jiazheng and Jiang Zhenglong, China

P2_06_ID79: The Anti-icy Effect on Insulators Based on the Hydrophobicity and Heating Effect of Semiconductive RTV Coating

Yan Li, Zhenting Sun, Zhidong Jia, Yuming Zhao, Xiaolin Li, China

P2_07_ID91: New Results on the Anti-icing Performance of LC-Spiral Rods

André Leblond, Noriyoshi Sugawara, Yuji Asano, Masanori Isozaki, Canada

P2_08_ID96: Research on Catenary Anti-icing (Ice-melting) Technology in High-speed Railway

Gong Yansheng, Huang Wenxun, Wang Jilai and Wang Qiang, China

P2_09_ID184: Time-dependent Hydrophobic and Ice-releasing Properties of Different Flat Alkyl-terminated Coatings on AA6061

S. Farhadi, M. Farzaneh, S.A. Kulinich and J.M. Asselin, Canada

P2_10_ID100: Determination of Ice Adhesion and Ice Properties in Order to Determine Ice Shedding Procedure of Coating Systems

Haseeb Shah, Eduardo Piles Moncholi, Ji Honghu and David W. Hammond, UK

P2_11_ID185: Leakage Current Simulation of a Pre-contaminated Insulator Covered with Snow

S. Taheri, M. Farzaneh, B.M. Mirzaei and I. Fofana, Canada

P2_12_ID126: Utility Hybrid Overhead Ground Wire for Ice Melting with High Voltage and Large Current

Lu Jiazheng, Zhao Chun, Li Bo, Fang Zhen, Zhang Hongxian, Xu Xunjian and Li Xiaochun, China

P2_13_ID128: Study on Variation of Melting Water Conductivity during Melting Period

Liu Bo, Yu Xinzhe, Zhou Jun and Xu Yueneng, China

P2_14_ID133: Research of De-icing Method and Device Based on 12-Pulse Rectification for 500kV Transmission Lines

Zhang Yun, Lu Jiazheng, Tan Yanjun and Li Bo, China

P2_15_ID146: Experimental Researches on Prevention of Ice Coating Galloping Using Small-scaled Simulated Transmission Line

Liu Liang, Yuan Yichao, Deng Chun, Liu Yaxin and Liu Hongbin, China

P2_16_ID148: Meteorologic Characteristics and Standard Thickness Calculations of Wire Icing over the North Region of Guangdong Province

Huang Haohui, Song Lili, Qin Peng, Liu Aijun and Jiang Chenglin, China

P2_17_ID151: Inhibiting Ice Accumulation on Conductors Using Sleeves Treated with Super-hydrophobic Surfaces

Zhao Yushun, Li Jian, Hu Jianlin, Jiang Xingliang and Shu Lichun, China

P2_18_ID152: Dynamic Responses of UHV Transmission Tower-line System after Ice-shedding in Heavy Ice Zones

Yi Wenyuan, Yan Bo, GuoYueming, Liang Ming and Li Li, China

P2_19_ID174: Superhydrophobic and Anti-icing Coatings on Aluminum Alloy Surfaces

Reza Jafari and Masoud Farzaneh, Canada

P2_20_ID175: Wettability Behavior of Superhydrophobic Silicone Rubber Coatings at Supercooled Temperatures

G. Momen, M. Farzaneh and J.M. Asselin, Canada

P2_21_ID178: The Equivalent Thermal Conductivity of Snow Sleeves on Overhead Transmission Lines

C. Zhang, M. Farzaneh, L. Kiss and P. Montpellier, Canada

P2_22_ID183: Ice-releasing Properties of Various Nanostructured Superhydrophobic Coatings on an Aluminum Surface

Shahram Farhadi, Masoud Farzaneh and Sergei .A. Kulinich, Canada

P2_23_ID187: On the Role of the Surface Dielectric Constant for Icephobic Coating Applications

R. Menini, M. Farzaneh, Z. Ghalimi and Y. Thibault, Canada

P2_24_ID189: Feasibility Compare of Removing and Melting Ice Technology of Transmission Line

Deng Wangting, Wang Tao and He Qing, China

P2_25_ID191: Principle and Technical Measure for the Anti-icing of Transmission Line

Ruan Ling, Wang Tao, Zhu Changcheng and Tan Zhangying, China

P2_26_ID196: Thinking and Some Suggestions about Ice Coating Disaster in Power Networks

Zhu Tao, China

P2_27_ID197: Simulation and Experimental Study on Maximum Temperature during Ice-melting of Ice-covered Conductors

Wang Daxing, Xu An, Liu Ping, Hu Jianglin, Jiang Xingliang, Zhang Zhijin and Fan songhai, China

P2_28_ID201: Numerical Simulations of Ice Shedding on Single-span Models

F. Mirshafiei, G. McClure and M. Farzaneh, Canada

P2_29_ID202: The Modeling of Ice Accretion on Transmission Line at Huanjialing

Wu Suliang, Jiang Chuangye, Sun Xian, Wang Qi, Fan Jianxun, China

P2_30_ID204: Effect of Capacity Imbalances of 500 kV Standby Transformer on Its Current

Jiang Wei, Liu Ping, Liu Fan and Tang Yonghong, China

P2_31_ID205: Research of Earth Surface Potential Distribution of UHVDC Grounding Electrode Based on CDEGS

Jiang Wei, Liu Xi and Wu Guangning, China

P2_32_ID208: Improvement of Simple Measures to Prevent Snow Accumulating on Road Information Signs in Regions with Heavy Snowfall

Osamu Sakase, Hiroki Matsushita and Masaru Matsuzawa, Japan

P2_33_ID214: Study on Dynamic Properties of Long-span Power Transmission Tower-cable System

Jiang Dong, Fei Qingguo, Zhou Honggang and Han Xiaolin, China

P2_34_ID217: Research on the Frequent and Phase Characteristics of Leakage Current of Iced Insulators

Jiang Yanru, Xia Yunfeng, Jiang Xingliang, Zhang Zhijing, Hu Jianlin and Shu Lichun, China

P2_35_ID220: Insulation Decrease Due to the Increase of Water Film Conductivity Formed on Ice and Icicles Accreted on Sheds of Insulator

Noriyoshi Sugawara, Japan

P2_36_ID223: Testing Method on DC Artificially Iced Disk-shaped and Suspension Insulators

Yang Jianlan, Shu Lichun, Zhou Tianchun, Jiang Xingliang, Hu Jianlin and Zhang Zhijin, China

P2_37_ID18: Electric Field Calculation of 330kV Ice-covered Composite Insulators Using the Finite

Element Method

Yin Fanghui, Jiang Xingliang, Zhang Zhijin, Hu Jianlin, Xia Yunfeng and Shu Lichun, China

Oral Session A5

A5_1_ID60: Evaluation of a Physical Snow Accretion Model by Laboratory Experiment

Takuya Yoshimatsu, Keitaro Fujii and Tomoki Watanabe, Japan

A5_2_ID112: Application of Analytic Hierarchy Process in Atmospheric Icing Climate Forecast of Power Network Based on Multiplex Climate Factors

Lu Jiazheng, Xu Xunjian, Yang Li, Zhang Hongxian, Li Bo, Fang Zhen and Zeng Xiangjun, China

A5_3_ID179: A Wet Snow Failure Model for Predicting Snow Shedding from an Overhead Cable

C. Zhang, M. Farzaneh, L. Kiss and L. Pellet, Canada

A5_4_ID115: Research on Ice-covering Alarming Model for Transmission-line Based on the Multivariate Regression of Meteorological Factors

Lu Jiazheng, Song Jian, Zhang Hongxian, Yang Li, Li Bo and Fang Zhen, China

A5_5_ID137: Application of Smart Expert System for Icing on Transmission Line

Li Zhaoting, Hao Yanpeng and Li Licheng, China

A5_6_ID198: Analysis and Prevention Measures of Trapping of 1000KV Changnan I Line

Li Junfeng and Shi Shengzhi, Dong Bingbing and Jiang Xingliang, China

Oral Session B5

B5_1_ID28: On Computational Modeling of Interactive Wind and Icing Effects on Overhead Line Conductors

Hooman Keyhan, Ghyslaine McClure and Wagdi G. Habashi, Canada

B5_2_ID62: Numerical Simulation of De-icing Process of Iced Multi-span Transmission Lines under Shock Load

Chen Kequan, Yan Bo, Cheng Haoyue and Liu Xiaohui, China

B5_3_ID224: Modeling of Cable Vibration Following Ice Shedding Propagation

László E. Kollár, Masoud Farzaneh and Pierre Van Dyke, Canada

B5_4_ID69: Experimental Study on the Influence of Freezing Temperature and Freezing Water's Electric Conductivity on Thermal Conductivity of Ice

Chen Ling, Dong Lina, Chao Yafeng, Hu Jianlin, Chang Tao and Jiang Xingliang, China

B5_5_ID109: Study on Fractal Characteristics of Aircraft Icing Microstructure

Du Yanxia, Gui Yewei, Ke Peng and Tu Haixia, China

Oral Session C5

C5_1_ID65: Influence of Hydrophobic Coating on Ice Accretion on Aluminum Conductor

Wang Fochi, Zhao Yuqian, Li Chengrong, Zhou You and Lv Yuzhen, China

C5_2_ID99: Switching Effect Optimization of Insulator's Anti-ice Semi-conductive RTV Coating

Wang Wei, Jia Zhidong, Guan Zhicheng, Zhao Yuming, Li Yan and Li Xiaolin, China

C5_3_ID171: Icephobic and Superhydrophobic Silicone Rubber Coatings for Outdoor Insulators

G. Momen, M. Farzaneh and A. Jé Carreira, Canada

C5_4_ID108: The Preparation of Fluorine-silicon Resin and the Research on its Anti-icing Properties

Wang Xianming, Zhang Yan and Ning Liang, China

C5_5_ID97: Analyze to Surface Leakage Currents on Super-hydrophobic Insulators under Icing Condition

Gong Yiyu, Li Jian, Zhao Yushun, Hu Jianlin and Jiang Xingliang, China

Oral Session A6

A6_1_ID85: Compact Towers with Post-line Insulators Designed For Snowy Areas

Borut Zemljarić, Slovenia

A6_2_ID113: Short-term Forecast System of Ice-covering for Power Grid

Lu Jiazheng, Zhang Hongxian, Yang Li, Li Bo and Fang Zhen, China

A6_3_ID129: The Ice-covered Insulation Configuration of 1000kV AC Transmission Line

Hu Quan, Liu Zhongquan, Liang Ming, Yuan Yao and Hu Jianlin, China

A6_4_ID135: Analysis of Hunan Power Grid Ice Disaster in 2008 and Related Series Anti-icing Technology Research

Lu Jiazheng, Xu Xunjian, Zhang Hongxian, Li Bo, Fang Zhen, Luo Jing and Tan Yanjun, China

A6_5_ID138: Analysis and Simulated Research of Tower Collapse by Ice Disaster of Hunan In 2008

Lu Jiazheng, Xu Xunjian, Liu Chun, Fang Zhen, Li Bo and Zhang Hongxian, China

Oral Session B6

B6_1_ID206: Possibility of Damage Caused by Impact and Scattering of Falling Snow on Road Information Signs

Hiroki Matsushita, Osamu Sakase and Masaru Matsuzawa, Japan

B6_2_ID68: Experiments and Analysis of Crystallization Effect during the Freezing Water Transition from Liquid to Solid Phase in Natural Environment

Chao Yafeng, Xiang Ze, Jiang Xingliang, Zhang Zhijin and Sun Caixin, China

B6_3_ID225: Numerical Modeling and Small-scale Experimental Simulation of Ice Shedding Propagation on Bundled Conductors

László E. Kollár and Masoud Farzaneh, Canada

B6_4_ID84: Joint Slippage Effects on Mechanical Behavior of a New Anti-icing Tower

Jiang Wenqiang and Wang Zhangqi, China

B6_5_ID169: Analysis of Mechanism of Galloping of Iced Conductor

Fan Shexin, Mo Yiwei and Zhu Jianxin, China

Oral Session C6

C6_1_ID92: Effect of Anti-icing RTV Coating on Delaying the Transfer of Soluble Salt in Ice Layer under Low Temperature

Bai Weili, Jia Zhidong and Guan Zhicheng, China

C6_2_ID102: The Characteristic and Chemical Analysis of Ice Coating on Transmission and Transformer Equipments in Hunan Power Grid Caused by Icing Disaster in 2008

Feng Bin, Chang Yan, Hu Xu, He Tiexiang and Zhang Yufu, China

C6_3_ID173: Stable Icephobic Teflon-Like Coatings Deposited On an Anodized Aluminum Surface

Reza Jafari and Masoud Farzaneh, Canada

C6_4_ID136: Analysis of Thermal Distribution along Insulator Strings with Semiconducting RTV

Wei Xiaoxing, Peng Xiangyang, Yao Senjing, Xu Zhihai, Jia Zhidong and Guan Zhicheng, China

C6_5_ID153: Development and Investigation of a New Kind of Anti-icing Coating with Ice-melting Performance

Zhang Rui, Yi Xianjie and Wan Xiaodong, China

Appendix: Submitted Abstract without Submitting Full-paper

Z_01_ID13: Wind Turbine Blade Heating – Does It Pay?

René Cattin, Switzerland

Z_02_ID29: Anti-ice Coatings: Science or Fiction?

Nadine Rehfeld and Dr. Volkmar Stenzel, Germany

Z_03_ID75: Measured Power Losses in Wind PowerPlants due to Icing

Rolf Westerlund, Sweden

Z_04_ID86: The Spatial Distribution of Icing in Germany Estimated by the Analysis of Weather Station Data and of Direct Measurements of Icing

Bodo Wichura, Germany

Z_05_ID87: Prediction of Atmospheric Icing with AROME

Ulf Andrae, Esbjörn Olsson and Per Undén, Sweden

Z_06_ID94: Technological Developments to Prevent Damages on Powerline Transmission Network

Roxane Alavi, Michel Bourdages, Pierre Couture, Daniel Gagnon, Christian Langheit,

Marc Leclerc, Serge Montambault and Deo Ndereyimana, Canada

Z_07_ID95: Development of a Reinforcement Method for BC Hydro 230 kV Portal Towers through Numerical Analysis and a Full ScaleLaboratory Test

Barry Anderson, Li Hong and Ola Onifade, Canada

Z_08_ID98: Ice-melting Research on Touching Net of Electrified Railway

Gong Yansheng and Jiang Xingliang, China

Z_09_ID130: Numerical Investigation of Iced-conductors Oscillations in the Wake of Windward Conductors

Amir Borna, Wagdi G. Habashi and Ghyslaine McClure, Canada

Z_10_ID134: Study on Light Icing Performance of Composite Insulators at AC Voltage

Yao Tao, Li Xuelin, Jia Ru, Li Jin and Cai Lin, China

Z_11_ID142: Monitoring Overhead Power Lines in Extreme Weather Conditions

Satsuk Evgeniy, Russia

Z_12_ID164: Energy in Cold Climates IEA Task 19

Timo Laakso, Andreas Krenn, Tomas Wallenius, Göran Ronsten, Lars Talhaug and Michael Durstewitz, Finland

Z_13_ID165: Using the Weather Research and Forecasting (WRF) Model to Predict Ground/Structural Icing

Gregory Thompson, Liu Changhai and Roy Rasmussen, United States

Z_14_ID172: Wettability Behavior of Superhydrophobic Silicone Rubber Coatings at Supercooled Temperatures

Gelareh MOMEN and Masoud FARZANEH, Canada

Z_15_ID181: Icing Probability Estimation Based on WRF Model Hindcast

Gil Lizcano, German Delgado, Pau Casso, Pep Morenon and Josep Calbo, Spain

Z_16_ID212: On-Line Monitoring of Icing Thickness on Transmission Line with Interval Estimation Method based on Tension Backstepping and Image Detecting

Yan Ruidong and Lv Yuxiang, China

Z_17_ID215: Study on Simulation Experiment on Impulse Characteristics of Grounding Devices in the Freeze-thaw Soil

Luo Ling, Chen Lijun, Sima Wenxia, Yuan Tao and Yang Qing, China

Z_18_ID216: Variable Resistance Conductors for Deicing Aerial Transmission Power Lines

Victor F. Petrenko and Charles R. Sullivan, United States

Z_19_ID218: A Method for Designing Booster Sheds on Post Insulators under Icing Conditions

S. M. Ale Emran, M. Farzaneh, C. Volat and S. Kumar, Canada

AUTHOR INDEX

<i>A. Jé Carreira</i>	C5_3_ID171	Icephobic and Superhydrophobic Silicone Rubber Coatings for Outdoor Insulators
<i>Afsaneh Esteki</i>	B2_4_ID157	A Predictive Indicator of Icing Damage Risk
<i>Akira Takahashi</i>	A3_1_ID61	Evaluation of Snow Accretion Properties of Insulators by Field Observation and Artificial Test-focusing on Packed and Wet Snow Condition-
<i>Alain Heimo</i>	A1_3_ID25	WIRE: Weather Intelligence for Renewable Energies
<i>Amir Borna</i>	B2_5_ID163	A Computational Aeroelastic Approach to Predict Galloping of Iced Conductors with Three Degrees of Freedom
<i>Amir Borna</i>	Z_09_ID130	Numerical Investigation of Iced-conductors Oscillations in the Wake of Windward Conductors
<i>An shan</i>	C1_5_ID154	Influence of Ice Thickness on DC Flashover Voltage of Ice Covered Insulation String
<i>An Shan</i>	C2_5_ID155	DC Flashover Performance of Iced Insulator Strings with Insulator Variety Structures
<i>André Leblond</i>	P2_07_ID91	New Results on the Anti-icing Performance of LC-Spiral Rods
<i>Andreas Krenn</i>	Z_12_ID164	Energy in Cold Climates IEA Task 19
<i>Anne Bosma</i>	P1_01_ID8	Comparative Performance of Silicone Rubber and Porcelain Hollow Insulators under Specific Ice and Salt Fog Conditions of Iceland
<i>Anton Kulyakhtin</i>	B4_1_ID63	Sea Spray Icing: In-cloud Evaporation. Semi-Analytical and Numerical Investigations
<i>Ari Leskinen</i>	A4_3_ID180	Comparison of Visibility Observations at a Meteorological Tower to Cloud Base Height Observations from Nearby Weather Stations
<i>Árni Jón Elíasson</i>	A4_5_ID231	Comparison between Simulations and Measurements of In-cloud Icing in Test Spans
<i>Asim Haldar</i>	B1_4_ID156	Optimum Return Period of an Overhead Line Considering Reliability, Security and Availability with Respect to Extreme Icing Events
<i>B.M. Mirzaei</i>	P2_11_ID185	Leakage Current Simulation of a Pre-contaminated Insulator Covered with Snow
<i>Bai Weili</i>	C6_1_ID92	Effect of Anti-icing RTV Coating on Delaying the Transfer of Soluble Salt in Ice Layer under Low Temperature
<i>Bai Yunqing</i>	P1_02_ID30	Calculation Method of Maximum Conductor Temperature and Maximum Allowable Current in Transmission Line Ice-melting With Short-circuit
<i>Barry Anderson</i>	Z_07_ID95	Development of a Reinforcement Method for BC Hydro 230 kV Portal Towers through Numerical Analysis and a Full ScaleLaboratory Test
<i>Ben C. Bernstein</i>	A2_3_ID149	LAPS-LOWICE: A Real-time System for the Assessment of Near-surface Icing Conditions
<i>Ben C. Bernstein</i>	A4_3_ID180	Comparison of Visibility Observations at a Meteorological Tower to Cloud Base Height Observations from Nearby Weather Stations
<i>Bertrand Calpini</i>	A1_3_ID25	WIRE: Weather Intelligence for Renewable Energies
<i>Bi Maoqiang</i>	A1_2_ID4	Study on Diameter Correction Coefficient of the Icing Thickness of the Conductors
<i>Bi Maoqiang</i>	C3_1_ID67	The Method and Test of De-icing on Four Bundled-conductors by Leading Running Current into Various Sub-conductor Combinations
<i>Bi Maoqiang</i>	P2_04_ID53	Influence of Test Methods on DC Flashover Performance of Ice-covered Composite Insulators
<i>Bjørn Egil K. Nygaard</i>	A3_5_ID176	Simulations vs. Observations of Supercooled Cloud Liquid Water at Ground Level; Sensitivity to Model Resolution and Cloud Microphysics Parameterizations
<i>Bjørn Egil K. Nygaard</i>	P1_04_ID55	WRF Atmospheric Icing Validation for Mount Zao, Japan, during 19-29 April 2009
<i>Bodo Wichura</i>	Z_04_ID86	The Spatial Distribution of Icing in Germany Estimated by the Analysis of Weather Station Data and of Direct Measurements of Icing

<i>Borut Zemljarić</i>	A6_1_ID85	Compact Towers with Post-line Insulators Designed For Snowy Areas
<i>Brian Wareing</i>	B1_5_ID161	A UK Probabilistic Wind/Ice Map
<i>Brian Wareing</i>	A3_3_ID162	Icing Measurements at Deadwater Fell Test Site
<i>C. Potvin</i>	C2_3_ID186	DC Flashover Performance of Insulators under Icing Conditions
<i>C. Volat</i>	Z_19_ID218	A Method for Designing Booster Sheds on Post Insulators under Icing Conditions
<i>C. Zhang</i>	P2_21_ID178	The Equivalent Thermal Conductivity of Snow Sleeves on Overhead Transmission Lines
<i>C. Zhang</i>	A5_3_ID179	A Wet Snow Failure Model for Predicting Snow Shedding from an Overhead Cable
<i>Cai Lin</i>	Z_10_ID134	Study on Light Icing Performance of Composite Insulators at AC Voltage
<i>Cai Wei</i>	P1_36_ID230	Application of the Composite Insulator with the Optic Fiber Sensors in Icing-monitoring of Overhead Transmission Lines
<i>Cao Min</i>	B3_2_ID47	Prediction Model for Power Transmission Line Icing Load Based on Data-driven
<i>Cao Yongxing</i>	A2_5_ID211	The Mechanical Model of Overhead Transmission Lines and a Novel Iteration Algorithm for the Icing Monitoring via Fiber Optic Sensors
<i>Chang Tao</i>	B5_4_ID69	Experimental Study on the Influence of Freezing Temperature and Freezing Water' s Electric Conductivity on Thermal Conductivity of Ice
<i>Chang Yan</i>	C6_2_ID102	The Characteristic and Chemical Analysis of Ice Coating on Transmission and Transformer Equipments in Hunan Power Grid Caused by Icing Disaster in 2008
<i>Chao Yafeng</i>	A1_2_ID4	Study on Diameter Correction Coefficient of the Icing Thickness of the Conductors
<i>Chao Yafeng</i>	C1_4_ID12	Comparison of DC Icing Flashover Performances for Pre-polluted Short Samples of Composite Insulators with Different Configuration in High Altitude Area
<i>Chao Yafeng</i>	P2_04_ID53	Influence of Test Methods on DC Flashover Performance of Ice-covered Composite Insulators
<i>Chao Yafeng</i>	B5_4_ID69	Experimental Study on the Influence of Freezing Temperature and Freezing Water' s Electric Conductivity on Thermal Conductivity of Ice
<i>Chao Yafeng</i>	B6_2_ID68	Experiments and Analysis of Crystallization Effect during the Freezing Water Transition from Liquid to Solid Phase in Natural Environment
<i>Charles R. Sullivan</i>	Z_18_ID216	Variable Resistance Conductors for Deicing Aerial Transmission Power Lines
<i>Chen Fangdong</i>	P1_29_ID200	EHV Transmission Line Icing Analysis and Countermeasures Research
<i>Chen Hua</i>	P1_29_ID200	EHV Transmission Line Icing Analysis and Countermeasures Research
<i>Chen Huoxing</i>	B3_2_ID47	Prediction Model for Power Transmission Line Icing Load Based on Data-driven
<i>Chen Kequan</i>	B5_2_ID62	Numerical Simulation of De-icing Process of Iced Multi-span Transmission Lines under Shock Load
<i>Chen Lijun</i>	Z_17_ID215	Study on Simulation Experiment on Impulse Characteristics of Grounding Devices in the Freeze-thaw Soil
<i>Chen Ling</i>	A1_2_ID4	Study on Diameter Correction Coefficient of the Icing Thickness of the Conductors
<i>Chen Ling</i>	C1_4_ID12	Comparison of DC Icing Flashover Performances for Pre-polluted Short Samples of Composite Insulators with Different Configuration in High Altitude Area
<i>Chen Ling</i>	P2_03_ID52	Validation of the Equivalent Effect of Pollution Simulation Methods on DC Icing Flashover Voltage of Insulators
<i>Chen Ling</i>	P2_04_ID53	Influence of Test Methods on DC Flashover Performance of Ice-covered Composite Insulators
<i>Chen Ling</i>	B5_4_ID69	Experimental Study on the Influence of Freezing Temperature and Freezing Water' s Electric Conductivity on Thermal Conductivity of Ice
<i>Chen Weijian</i>	B4_5_ID207	Numerical Simulation of De-icing and Ice Shedding on Multilayered Structures
<i>Chen Xiaoyue</i>	P1_36_ID230	Application of the Composite Insulator with the Optic Fiber Sensors in Icing-monitoring of

		Overhead Transmission Lines
Chen Yong	C2_4_ID119	Icing Flashover Characteristics of EHV Transmission Line Insulators under Sever Icing
Chen Yong	C4_2_ID118	Effect of Composite Assistant Shed on the Flashover Performance of Ice-covered Station Post Insulators
Chen Yong	P1_36_ID230	Application of the Composite Insulator with the Optic Fiber Sensors in Icing-monitoring of Overhead Transmission Lines
Chen Yonghui	C3_5_ID147	Modeling and On-site Experiments of Shunt Capacitor Compensation Method for Deicing of 66KV Power Line
Cheng Haoyue	B5_2_ID62	Numerical Simulation of De-icing Process of Iced Multi-span Transmission Lines under Shock Load
Cheng Yangchun	P1_33_ID222	Reliability Investigation of Fiber Bragg Grating Sensors Used in Icing Monitoring of Overhead Power Lines
China Southern Power Grid	A1_6	Ice Accidents and Anti/De-icing Measures in China Southern Grid
Christian Langheit	Z_06_ID94	Technological Developments to Prevent Damages on Powerline Transmission Network
D. Gagnon	A4_1_ID170	Technological Developments for the Study of Guy Cable Damage Induced By Atmospheric Icing on High Voltage Transmission Lines
Dai Dong	B4_4_ID159	The Regression Model of Transmission Line Icing Based on Neural Networks
Daniel Gagnon	Z_06_ID94	Technological Developments to Prevent Damages on Powerline Transmission Network
David W. Hammond	P2_10_ID100	Determination of Ice Adhesion and Ice Properties in Order to Determine Ice Shedding Procedure of Coating Systems
Deng Chun	P2_15_ID146	Experimental Researches on Prevention of Ice Coating Galloping Using Small-scaled Simulated Transmission Line
Deng Jiazhao	P2_02_ID49	The Electric Field and Potential Distribution of Composite Insulator with Series Connection of Glass Insulator
Deng Wangting	P2_24_ID189	Feasibility Compare of Removing and Melting Ice Technology of Transmission Line
Deng Wanting	P1_23_ID188	The Ice Monitoring Technology of Transmission Lines
Deng Wanting	P1_25_ID192	Pre-failure Diagnosis of Substation Electrical Equipment under Icing Condition and Preventive Techniques
Deng Wanting,	P1_24_ID190	Icing Monitoring Technology of Transmission Lines
Deng Yu	P1_19_ID141	The Design Principle of Anti-icing Insulator Based on Switch Effect and Gradual Change of Bushing Surface Resistivity
Deo Ndereyimana	Z_06_ID94	Technological Developments to Prevent Damages on Powerline Transmission Network
Dong BingBing	P1_38_ID17	The Calculation of Electric Field along the Surface of 1100kV Station Post Insulator under Impulse Voltage Based on ANSYS
Dong Bingbing	P2_01_ID3	Study on Imbalance Tensile Forces with Tower for Non-contemporaneous Ice Shedding
Dong Bingbing	A5_6_ID198	Analysis and Prevention Measures of Trapping of 1000KV Changnan I Line
Dong Lina	P1_03_ID50	Using Fitting Slope Method Predicting Icing Parameters Based on Ice Mass of Rotating Multi-conductors
Dong Lina	B5_4_ID69	Experimental Study on the Influence of Freezing Temperature and Freezing Water' s Electric Conductivity on Thermal Conductivity of Ice
Du Yanxia	B5_5_ID109	Study on Fractal Characteristics of Aircraft Icing Microstructure
Du Zhen	P1_28_ID199	Icing Features of Wire in Chongqing Region
Eduardo Piles Moncholi	P2_10_ID100	Determination of Ice Adhesion and Ice Properties in Order to Determine Ice Shedding Procedure of Coating Systems

<i>Edward Lozowski</i>	B2_4_ID157	A Predictive Indicator of Icing Damage Risk
<i>Egill Thorsteins</i>	A4_5_ID231	Comparison between Simulations and Measurements of In-cloud Icing in Test Spans
<i>Erik Gregow</i>	A2_3_ID149	LAPS-LOWICE: A Real-time System for the Assessment of Near-surface Icing Conditions
<i>Erik Gregow</i>	A4_3_ID180	Comparison of Visibility Observations at a Meteorological Tower to Cloud Base Height Observations from Nearby Weather Stations
<i>Esbjörn Olsson</i>	B1_1_ID89	Towards a High-resolution Icing Climatology In Sweden
<i>Esbjörn Olsson</i>	Z_05_ID87	Prediction of Atmospheric Icing with AROME
<i>Evgeny A. Podolskiy</i>	P1_04_ID55	WRF Atmospheric Icing Validation for Mount Zao, Japan, during 19-29 April 2009
<i>F. Mirshafiei</i>	P2_28_ID201	Numerical Simulations of Ice Shedding on Single-span Models
<i>Fan Jianxun</i>	P2_29_ID202	The Modeling of Ice Accretion on Transmission Line at Huanjialing
<i>Fan Shexin</i>	B6_5_ID169	Analysis of Mechanism of Galloping of Iced Conductor
<i>Fan Songhai</i>	A4_4_ID203	Shape Characteristic of Iced Conductor
<i>Fan songhai</i>	P2_27_ID197	Simulation and Experimental Study on Maximum Temperature during Ice-melting of Ice-covered Conductors
<i>Fan Xilai</i>	P1_36_ID230	Application of the Composite Insulator with the Optic Fiber Sensors in Icing-monitoring of Overhead Transmission Lines
<i>Fan Xuehai</i>	A3_2_ID51	Research on the Calculation of Deviation Angle of Icicle Build-up on Insulators and Its Influential Factor
<i>Fang Zhen</i>	A5_2_ID112	Application of Analytic Hierarchy Process in Atmospheric Icing Climate Forecast of Power Network Based on Multiplex Climate Factors
<i>Fang Zhen</i>	A5_4_ID115	Research on Ice-covering Alarming Model for Transmission-line Based on the Multivariate Regression of Meteorological Factors
<i>Fang Zhen</i>	A1_4_ID139	Transmission Lines Malfunction Imbalance Tension Trend Monitoring and Tilt Monitoring Device of Research
<i>Fang Zhen</i>	A2_6_ID131	Integrated Anti-fog Monitoring Methods of Power Transmission Line Ice Covering
<i>Fang Zhen</i>	C3_4_ID132	Research and Application of New AC/DC De-icing Devices in Hunan Power Grid
<i>Fang Zhen</i>	A4_2_ID114	Observational Studies of Hunan Transmission Line Icing at Microtopography and Micrometeorological
<i>Fang Zhen</i>	C4_1_ID116	A Novel Composite Insulator with Lightning Protection and Icing Flashover Prevention
<i>Fang Zhen</i>	P2_12_ID126	Utility Hybrid Overhead Ground Wire for Ice Melting with High Voltage and Large Current
<i>Fang Zhen</i>	A6_2_ID113	Short-term Forecast System of Ice-covering for Power Grid
<i>Fang Zhen</i>	A6_4_ID135	Analysis of Hunan Power Grid Ice Disaster in 2008 and Related Series Anti-icing Technology Research
<i>Fang Zhen</i>	A6_5_ID138	Analysis and Simulated Research of Tower Collapse by Ice Disaster of Hunan In 2008
<i>Fei Qingguo</i>	P2_33_ID214	Study on Dynamic Properties of Long-span Power Transmission Tower-cable System
<i>Feng Bin</i>	C6_2_ID102	The Characteristic and Chemical Analysis of Ice Coating on Transmission and Transformer Equipments in Hunan Power Grid Caused by Icing Disaster in 2008
<i>Feng Fang</i>	B4_2_ID103	Wind Tunnel Tests and Numerical Simulations on the Performance Effects of Icing on Wind Turbine Blade
<i>G. McClure</i>	A4_1_ID170	Technological Developments for the Study of Guy Cable Damage Induced By Atmospheric Icing on High Voltage Transmission Lines
<i>G. McClure</i>	P2_28_ID201	Numerical Simulations of Ice Shedding on Single-span Models
<i>G. Momen</i>	P2_20_ID175	Wettability Behavior of Superhydrophobic Silicone Rubber Coatings at Supercooled Temperatures

<i>G. Momen</i>	C5_3_ID171	Icephobic and Superhydrophobic Silicone Rubber Coatings for Outdoor Insulators
<i>G. Roberge</i>	A4_1_ID170	Technological Developments for the Study of Guy Cable Damage Induced By Atmospheric Icing on High Voltage Transmission Lines
<i>Gaku Sakata</i>	C2_1_ID26	Development of Flashover Voltage Test Method for Snow Accreted Insulators -Preliminary Test with 33kV Class Insulator Samples-
<i>Gaku Sakata</i>	A3_1_ID61	Evaluation of Snow Accretion Properties of Insulators by Field Observation and Artificial Test-focusing on Packed and Wet Snow Condition-
<i>Gao Haifeng</i>	C1_3_ID101	Icing Flashover Characteristics of Insulators Strings with Different Alternating Sheds
<i>Gao Haifeng</i>	C1_5_ID154	Influence of Ice Thickness on DC Flashover Voltage of Ice Covered Insulation String
<i>Gao Haifeng</i>	C2_5_ID155	DC Flashover Performance of Iced Insulator Strings with Insulator Variety Structures
<i>Gelareh MOMEN</i>	Z_14_ID172	Wettability Behavior of Superhydrophobic Silicone Rubber Coatings at Supercooled Temperatures
<i>Georgij Porporkin</i>	C1_1_ID9	Comparative Performance of Conventional 220kV Insulator Strings and Multi-Chamber Insulator Arresters Strings Under Specific Ice Conditions of Russia
<i>German Delgado</i>	Z_15_ID181	Icing Probability Estimation Based on WRF Model Hindcast
<i>Ghyslaine McClure</i>	B2_5_ID163	A Computational Aeroelastic Approach to Predict Galloping of Iced Conductors with Three Degrees of Freedom
<i>Ghyslaine McClure</i>	B5_1_ID28	On Computational Modeling of Interactive Wind and Icing Effects on Overhead Line Conductors
<i>Ghyslaine McClure</i>	Z_09_ID130	Numerical Investigation of Iced-conductors Oscillations in the Wake of Windward Conductors
<i>Gil Lizcano</i>	Z_15_ID181	Icing Probability Estimation Based on WRF Model Hindcast
<i>Gilberto Mariani</i>	B2_1_ID90	The WOLF System: Forecasting Wet-snow Loads On Power Lines in Italy
<i>Giuseppe Stella</i>	B2_1_ID90	The WOLF System: Forecasting Wet-snow Loads On Power Lines in Italy
<i>Gong Yansheng</i>	P2_08_ID96	Research on Catenary Anti-icing (Ice-melting) Technology in High-speed Railway
<i>Gong Yansheng</i>	Z_08_ID98	Ice-melting Research on Touching Net of Electrified Railway
<i>Gong Yiyu</i>	C5_5_ID97	Analyze to Surface Leakage Currents on Super-hydrophobic Insulators under Icing Condition
<i>Goran Per Rune Ronsten</i>	B1_3_ID106	Sweden's Bold Activities in Measurements and Mapping of Icing and De-icing of Wind Turbines
<i>Göran Ronsten</i>	Z_12_ID164	Energy in Cold Climates IEA Task 19
<i>Gregory Thompson</i>	Z_13_ID165	Using the Weather Research and Forecasting (WRF) Model to Predict Ground/Structural Icing
<i>Gu Xiaosong</i>	A2_4_ID111	Expert System of Icing and Anti-icing on Wires in Freezing Rain
<i>Gu Xiaosong</i>	P1_06_ID64	Experimental Study on the Convection Heat Transfer of Air across Wires in the Icing Environmental Conditions
<i>Gu Xiaosong</i>	P1_07_ID66	Experimental Study on the Collection Coefficient of Power Line Icing
<i>Guan Zhicheng</i>	C1_3_ID101	Icing Flashover Characteristics of Insulators Strings with Different Alternating Sheds
<i>Guan Zhicheng</i>	P1_19_ID141	The Design Principle of Anti-icing Insulator Based on Switch Effect and Gradual Change of Bushing Surface Resistivity
<i>Guan Zhicheng</i>	C5_2_ID99	Switching Effect Optimization of Insulator' s Anti-ice Semi-conductive RTV Coating
<i>Guan Zhicheng</i>	C6_1_ID92	Effect of Anti-icing RTV Coating on Delaying the Transfer of Soluble Salt in Ice Layer under Low Temperature
<i>Guan Zhicheng</i>	C6_4_ID136	Analysis of Thermal Distribution along Insulator Strings with Semiconducting RTV
<i>Gui Yewei</i>	B5_5_ID109	Study on Fractal Characteristics of Aircraft Icing Microstructure
<i>Guo Xiaoyan</i>	P1_05_ID58	Study on the Characteristics of Aerosol for Glaze Icing Manual Intervention

<i>Guo Xiaoyan</i>	P1_12_ID81	An Experimental Device Used to Measure Ice Nucleation Property of Pyrotechnics Formula
<i>Guo Xinyang</i>	P1_29_ID200	EHV Transmission Line Icing Analysis and Countermeasures Research
<i>GuoYueming</i>	P2_18_ID152	Dynamic Responses of UHV Transmission Tower-line System after Ice-shedding in Heavy Ice Zones
<i>H. Banitalebi Dehkordi</i>	P1_30_ID226	Experimental Study of Flow Characteristics around a Circular Cylinder with Different Ice Profiles
<i>H. Bergström</i>	A2_1_ID88	Validation of Icing Measurements
<i>H. Morikawa</i>	P1_10_ID76	Study of Snowdrift around Buildings of Antarctica Using Numerical Analysis
<i>H.Matsushita</i>	C4_3_ID209	Conditions for Installation of Snow Accretion Countermeasures On Road Information Signs
<i>Hálfðán Ágústsson</i>	A4_5_ID231	Comparison between Simulations and Measurements of In-cloud Icing in Test Spans
<i>Hamid Banitalebi Dehkordi</i>	P1_32_ID219	Experimental Study of Spray Characteristics and Its Uniformity under Different Icing Conditions
<i>Han Xiaolin</i>	P2_33_ID214	Study on Dynamic Properties of Long-span Power Transmission Tower-cable System
<i>hang Rui</i>	C6_5_ID153	Development and Investigation of a New Kind of Anti-icing Coating with Ice-melting Performance
<i>Hans Bergström</i>	B1_1_ID89	Towards a High-resolution Icing Climatology In Sweden
<i>Hao Yanpeng</i>	B1_2_ID82	Simulation Analysis of Bundled Conductors and Spacer-dampers in a Typical 500kV Transmission Line during DC Ice-melting
<i>Hao Yanpeng</i>	B4_4_ID159	The Regression Model of Transmission Line Icing Based on Neural Networks
<i>Hao Yanpeng</i>	P1_20_ID145	Summarization of On-line Icing-monitoring Methods of Transmission Lines
<i>Hao Yanpeng</i>	A5_5_ID137	Application of Smart Expert System for Icing on Transmission Line
<i>Harri Portin</i>	A4_3_ID180	Comparison of Visibility Observations at a Meteorological Tower to Cloud Base Height Observations from Nearby Weather Stations
<i>Haseeb Shah</i>	P2_10_ID100	Determination of Ice Adhesion and Ice Properties in Order to Determine Ice Shedding Procedure of Coating Systems
<i>He Qing</i>	P1_31_ID195	Anti-ice Shedding Technology of Transmission Line
<i>He Qing</i>	P2_24_ID189	Feasibility Compare of Removing and Melting Ice Technology of Transmission Line
<i>He Qing</i>	P1_23_ID188	The Ice Monitoring Technology of Transmission Lines
<i>He Qing</i>	P1_24_ID190	Icing Monitoring Technology of Transmission Lines
<i>He Tiexiang</i>	C6_2_ID102	The Characteristic and Chemical Analysis of Ice Coating on Transmission and Transformer Equipments in Hunan Power Grid Caused by Icing Disaster in 2008
<i>He Zhimin</i>	P1_18_ID80	On-line Monitoring System of Ice-covered Overhead Transmission Line Based on Mechanical and Inclination Angle Measurement
<i>Hiroki Matsushita</i>	P2_32_ID208	Improvement of Simple Measures to Prevent Snow Accumulating on Road Information Signs in Regions with Heavy Snowfall
<i>Hiroki Matsushita</i>	B6_1_ID206	Possibility of Damage Caused by Impact and Scattering of Falling Snow on Road Information Signs
<i>Hiroshi Morikawa</i>	A1_1_ID83	Incorrect Wind Measurement Due to Icing on Heated Ultrasonic Anemometer
<i>Hiroya Homma</i>	C2_1_ID26	Development of Flashover Voltage Test Method for Snow Accreted Insulators -Preliminary Test with 33kV Class Insulator Samples-
<i>Hiroya Homma</i>	A3_1_ID61	Evaluation of Snow Accretion Properties of Insulators by Field Observation and Artificial Test-focusing on Packed and Wet Snow Condition-
<i>Hooman Keyhan</i>	B5_1_ID28	On Computational Modeling of Interactive Wind and Icing Effects on Overhead Line Conductors
<i>Hu Hui</i>	A3_4_ID117	An Experimental Study of the Icing Process within Small Water Droplets Impinging onto a

		Frozen Cold Plate
<i>Hu Jianglin</i>	P2_27_ID197	Simulation and Experimental Study on Maximum Temperature during Ice-melting of Ice-covered Conductors
<i>Hu Jianlin</i>	P2_03_ID52	Validation of the Equivalent Effect of Pollution Simulation Methods on DC Icing Flashover Voltage of Insulators
<i>Hu Jianlin</i>	C2_2_ID59	Flashover Performance of 330kV Ice-covered Composite Insulators of Different Shed Profiles
<i>Hu Jianlin</i>	C3_1_ID67	The Method and Test of De-icing on Four Bundled-conductors by Leading Running Current into Various Sub-conductor Combinations
<i>Hu Jianlin</i>	C4_5_ID213	The Method and Implementation of Icing and De-icing at Xuefeng Mountain Natural Icing Station
<i>Hu Jianlin</i>	P1_38_ID17	The Calculation of Electric Field along the Surface of 1100kV Station Post Insulator under Impulse Voltage Based on ANSYS
<i>Hu Jianlin</i>	P2_01_ID3	Study on Imbalance Tensile Forces with Tower for Non-contemporaneous Ice Shedding
<i>Hu Jianlin</i>	P2_17_ID151	Inhibiting Ice Accumulation on Conductors Using Sleeves Treated with Super-hydrophobic Surfaces
<i>Hu Jianlin</i>	P2_37_ID18	Electric Field Calculation of 330kV Ice-covered Composite Insulators Using the Finite Element Method
<i>Hu Jianlin</i>	P2_36_ID223	Testing Method on DC Artificially Iced Disk-shaped and Suspension Insulators
<i>Hu Jianlin</i>	P2_34_ID217	Research on the Frequent and Phase Characteristics of Leakage Current of Iced Insulators
<i>Hu Jianlin</i>	B5_4_ID69	Experimental Study on the Influence of Freezing Temperature and Freezing Water' s Electric Conductivity on Thermal Conductivity of Ice
<i>Hu Jianlin</i>	C5_5_ID97	Analyze to Surface Leakage Currents on Super-hydrophobic Insulators under Icing Condition
<i>Hu Jianlin</i>	A6_3_ID129	The Ice-covered Insulation Configuration of 1000kV AC Transmission Line
<i>Hu Qin</i>	C1_2_ID48	Comparative Study on Icing State and AC Flashover Performance between Composite Insulators under Energized and Non-energized Icing Condition
<i>Hu Qin</i>	A3_2_ID51	Research on the Calculation of Deviation Angle of Icicle Build-up on Insulators and Its Influential Factor
<i>Hu Quan</i>	A6_3_ID129	The Ice-covered Insulation Configuration of 1000kV AC Transmission Line
<i>Hu Xu</i>	C6_2_ID102	The Characteristic and Chemical Analysis of Ice Coating on Transmission and Transformer Equipments in Hunan Power Grid Caused by Icing Disaster in 2008
<i>Huang Haizhou</i>	C3_1_ID67	The Method and Test of De-icing on Four Bundled-conductors by Leading Running Current into Various Sub-conductor Combinations
<i>Huang Haizhou</i>	C4_5_ID213	The Method and Implementation of Icing and De-icing at Xuefeng Mountain Natural Icing Station
<i>Huang Haohui</i>	P2_16_ID148	Meteorologic Characteristics and Standard Thickness Calculations of Wire Icing over the North Region of Guangdong Province
<i>Huang Qi</i>	A2_5_ID211	The Mechanical Model of Overhead Transmission Lines and a Novel Iteration Algorithm for the Icing Monitoring via Fiber Optic Sensors
<i>Huang Wenxun</i>	P2_08_ID96	Research on Catenary Anti-icing (Ice-melting) Technology in High-speed Railway
<i>Huang Xiaoting</i>	B4_4_ID159	The Regression Model of Transmission Line Icing Based on Neural Networks
<i>Huang Zhizhou</i>	P1_16_ID122	Icing Observation and Analysis of the $\pm 800\text{kV}$ Ultra High Voltage Direct Current
<i>I. Fofana</i>	P2_11_ID185	Leakage Current Simulation of a Pre-contaminated Insulator Covered with Snow
<i>I. Fofana</i>	C2_3_ID186	DC Flashover Performance of Insulators under Icing Conditions
<i>Ian Wittmeyer</i>	A2_3_ID149	LAPS-LOWICE: A Real-time System for the Assessment of Near-surface Icing Conditions

<i>Ian Wittmeyer</i>	A4_3_ID180	Comparison of Visibility Observations at a Meteorological Tower to Cloud Base Height Observations from Nearby Weather Stations
<i>Igor Gutman</i>	C1_1_ID9	Comparative Performance of Conventional 220kV Insulator Strings and Multi-Chamber Insulator Arresters Strings Under Specific Ice Conditions of Russia
<i>Igor Gutman</i>	P1_01_ID8	Comparative Performance of Silicone Rubber and Porcelain Hollow Insulators under Specific Ice and Salt Fog Conditions of Iceland
<i>J.M. Asselin</i>	P2_09_ID184	Time-dependent Hydrophobic and Ice-releasing Properties of Different Flat Alkyl-terminated Coatings on AA6061
<i>J.M. Asselin</i>	P2_20_ID175	Wettability Behavior of Superhydrophobic Silicone Rubber Coatings at Supercooled Temperatures
<i>Jarkko Hirvonen</i>	A2_3_ID149	LAPS-LOWICE: A Real-time System for the Assessment of Near-surface Icing Conditions
<i>Jarkko Hirvonen</i>	A4_3_ID180	Comparison of Visibility Observations at a Meteorological Tower to Cloud Base Height Observations from Nearby Weather Stations
<i>Ji Honghu</i>	P2_10_ID100	Determination of Ice Adhesion and Ice Properties in Order to Determine Ice Shedding Procedure of Coating Systems
<i>Jia Ru</i>	Z_10_ID134	Study on Light Icing Performance of Composite Insulators at AC Voltage
<i>Jia Zhidong</i>	C1_3_ID101	Icing Flashover Characteristics of Insulators Strings with Different Alternating Sheds
<i>Jia Zhidong</i>	P1_19_ID141	The Design Principle of Anti-icing Insulator Based on Switch Effect and Gradual Change of Bushing Surface Resistivity
<i>Jia Zhidong</i>	C5_2_ID99	Switching Effect Optimization of Insulator' s Anti-ice Semi-conductive RTV Coating
<i>Jia Zhidong</i>	C6_1_ID92	Effect of Anti-icing RTV Coating on Delaying the Transfer of Soluble Salt in Ice Layer under Low Temperature
<i>Jia Zhidong</i>	C6_4_ID136	Analysis of Thermal Distribution along Insulator Strings with Semiconducting RTV
<i>Jiang Chenglin</i>	P2_16_ID148	Meteorologic Characteristics and Standard Thickness Calculations of Wire Icing over the North Region of Guangdong Province
<i>Jiang Chilong</i>	P2_02_ID49	The Electric Field and Potential Distribution of Composite Insulator with Series Connection of Glass Insulator
<i>Jiang Chuangye</i>	P2_29_ID202	The Modeling of Ice Accretion on Transmission Line at Huanjialing
<i>Jiang Dong</i>	P2_33_ID214	Study on Dynamic Properties of Long-span Power Transmission Tower-cable System
<i>Jiang Jian</i>	P1_33_ID222	Reliability Investigation of Fiber Bragg Grating Sensors Used in Icing Monitoring of Overhead Power Lines
<i>Jiang Shijin</i>	C3_5_ID147	Modeling and On-site Experiments of Shunt Capacitor Compensation Method for Deicing of 66KV Power Line
<i>Jiang Wei</i>	P2_30_ID204	Effect of Capacity Imbalances of 500 kV Standby Transformer on Its Current
<i>Jiang Wei</i>	P2_31_ID205	Research of Earth Surface Potential Distribution of UHVDC Grounding Electrode Based on CDEGS
<i>Jiang Wenqiang</i>	B6_4_ID84	Joint Slippage Effects on Mechanical Behavior of a New Anti-icing Tower
<i>Jiang Xingliang</i>	P1_38_ID17	The Calculation of Electric Field along the Surface of 1100kV Station Post Insulator under Impulse Voltage Based on ANSYS
<i>Jiang Xingliang</i>	P2_04_ID53	Influence of Test Methods on DC Flashover Performance of Ice-covered Composite Insulators
<i>Jiang Xingliang</i>	P2_17_ID151	Inhibiting Ice Accumulation on Conductors Using Sleeves Treated with Super-hydrophobic Surfaces
<i>Jiang Xingliang</i>	K1	Investigations on Icing Performance and De/Anti-icing Methods of Overhead Transmission Lines Based on Observations at Xuefeng Mountain Natural Icing Station

Jiang Xingliang	A1_2_ID4	Study on Diameter Correction Coefficient of the Icing Thickness of the Conductors
Jiang Xingliang	C1_2_ID48	Comparative Study on Icing State and AC Flashover Performance between Composite Insulators under Energized and Non-energized Icing Condition
Jiang Xingliang	C1_4_ID12	Comparison of DC Icing Flashover Performances for Pre-polluted Short Samples of Composite Insulators with Different Configuration in High Altitude Area
Jiang Xingliang	C2_2_ID59	Flashover Performance of 330kV Ice-covered Composite Insulators of Different Shed Profiles
Jiang Xingliang	A3_2_ID51	Research on the Calculation of Deviation Angle of Icicle Build-up on Insulators and Its Influential Factor
Jiang Xingliang	C3_1_ID67	The Method and Test of De-icing on Four Bundled-conductors by Leading Running Current into Various Sub-conductor Combinations
Jiang Xingliang	A4_4_ID203	Shape Characteristic of Iced Conductor
Jiang Xingliang	C4_5_ID213	The Method and Implementation of Icing and De-icing at Xuefeng Mountain Natural Icing Station
Jiang Xingliang	P1_03_ID50	Using Fitting Slope Method Predicting Icing Parameters Based on Ice Mass of Rotating Multi-conductors
Jiang Xingliang	P1_28_ID199	Icing Features of Wire in Chongqing Region
Jiang Xingliang	P2_01_ID3	Study on Imbalance Tensile Forces with Tower for Non-contemporaneous Ice Shedding
Jiang Xingliang	P2_03_ID52	Validation of the Equivalent Effect of Pollution Simulation Methods on DC Icing Flashover Voltage of Insulators
Jiang Xingliang	P2_27_ID197	Simulation and Experimental Study on Maximum Temperature during Ice-melting of Ice-covered Conductors
Jiang Xingliang	P2_37_ID18	Electric Field Calculation of 330kV Ice-covered Composite Insulators Using the Finite Element Method
Jiang Xingliang	P2_36_ID223	Testing Method on DC Artificially Iced Disk-shaped and Suspension Insulators
Jiang Xingliang	P2_34_ID217	Research on the Frequent and Phase Characteristics of Leakage Current of Iced Insulators
Jiang Xingliang	A5_6_ID198	Analysis and Prevention Measures of Trapping of 1000KV Changnan I Line
Jiang Xingliang	B5_4_ID69	Experimental Study on the Influence of Freezing Temperature and Freezing Water' s Electric Conductivity on Thermal Conductivity of Ice
Jiang Xingliang	C5_5_ID97	Analyze to Surface Leakage Currents on Super-hydrophobic Insulators under Icing Condition
Jiang Xingliang	B6_2_ID68	Experiments and Analysis of Crystallization Effect during the Freezing Water Transition from Liquid to Solid Phase in Natural Environment
Jiang Xingliang	Z_08_ID98	Ice-melting Research on Touching Net of Electrified Railway
Jiang Xiuchen	P1_18_ID80	On-line Monitoring System of Ice-covered Overhead Transmission Line Based on Mechanical and Inclination Angle Measurement
Jiang Yanru	P2_34_ID217	Research on the Frequent and Phase Characteristics of Leakage Current of Iced Insulators
Jiang Zhenglong	B3_3_ID70	Numerical Simulation on the Ice-melting Process for High-current Wires
Jiang Zhenglong	C4_1_ID116	A Novel Composite Insulator with Lightning Protection and Icing Flashover Prevention
Jiang Zhenglong	P1_13_ID110	Analyze on the Ice-covering Recurrence Interval of Power Grid Based on PSO Optimization
Jiang Zhenglong	P2_05_ID72	Comparative Analysis on Thermal Efficiency in AC/DC-Based De-icing
Jiang Zhenglong	P1_09_ID71	Calculation Study on Ice-melting Implementation Strategy of Transmission Lines
Jin Tao	P1_23_ID188	The Ice Monitoring Technology of Transmission Lines
Jin Tao	P1_24_ID190	Icing Monitoring Technology of Transmission Lines
Jin Tao	P1_26_ID193	Anti-icing and Disaster-mitigating Coping Strategies for Hubei Power Grid
Jin Tao	P1_27_ID194	Introduction of Anti-icing and Mitigation Researches Done by CEATI

<i>Jin Xipin</i>	P1_14_ID120	The Research of Icing Magnitude of Transmission Lines in Mountainous Region
<i>Jin Zheyang</i>	A3_4_ID117	An Experimental Study of the Icing Process within Small Water Droplets Impinging onto a Frozen Cold Plate
<i>Johan Lundengård</i>	P1_01_ID8	Comparative Performance of Silicone Rubber and Porcelain Hollow Insulators under Specific Ice and Salt Fog Conditions of Iceland
<i>Jón Egill Kristjánsson</i>	A3_5_ID176	Simulations vs. Observations of Supercooled Cloud Liquid Water at Ground Level; Sensitivity to Model Resolution and Cloud Microphysics Parameterizations
<i>Josep Calbo</i>	Z_15_ID181	Icing Probability Estimation Based on WRF Model Hindcast
<i>K. Ishizawa</i>	P1_10_ID76	Study of Snowdrift around Buildings of Antarctica Using Numerical Analysis
<i>Kathleen F. Jones</i>	B3_1_ID57	Sea Spray Icing Profiles on Fixed Offshore Structures
<i>Kathleen F. Jones</i>	P1_08_ID93	In-cloud Icing Simulation with GEM-LAM Model
<i>Kazuto Ueno</i>	P1_21_ID166	Roughness Characteristics in Aufeis Morphology
<i>Kazuto Ueno</i>	P1_22_ID167	Convective Heat Transfer Coefficient in Air/Liquid-water/Ice/Solid-wall Multi-phase System
<i>Ke Peng</i>	B5_5_ID109	Study on Fractal Characteristics of Aircraft Icing Microstructure
<i>Keitaro Fujii</i>	A5_1_ID60	Evaluation of a Physical Snow Accretion Model by Laboratory Experiment
<i>Knut Harstveit</i>	A4_3_ID180	Comparison of Visibility Observations at a Meteorological Tower to Cloud Base Height Observations from Nearby Weather Stations
<i>Kohei Yaji</i>	C2_1_ID26	Development of Flashover Voltage Test Method for Snow Accreted Insulators -Preliminary Test with 33kV Class Insulator Samples-
<i>Kohei Yaji</i>	A3_1_ID61	Evaluation of Snow Accretion Properties of Insulators by Field Observation and Artificial Test-focusing on Packed and Wet Snow Condition-
<i>Kotaro Tagawa</i>	B4_2_ID103	Wind Tunnel Tests and Numerical Simulations on the Performance Effects of Icing on Wind Turbine Blade
<i>Kuang Jun</i>	P1_03_ID50	Using Fitting Slope Method Predicting Icing Parameters Based on Ice Mass of Rotating Multi-conductors
<i>L. Kiss</i>	A5_3_ID179	A Wet Snow Failure Model for Predicting Snow Shedding from an Overhead Cable
<i>L. Kiss</i>	P2_21_ID178	The Equivalent Thermal Conductivity of Snow Sleeves on Overhead Transmission Lines
<i>L. Pellet</i>	A5_3_ID179	A Wet Snow Failure Model for Predicting Snow Shedding from an Overhead Cable
<i>L.Niculae</i>	C3_3_ID160	Some Solutions for Icing Prevention
<i>Lan Qiang</i>	P2_04_ID53	Influence of Test Methods on DC Flashover Performance of Ice-covered Composite Insulators
<i>Larisa Timashova</i>	B2_3_ID107	Climatic Loads Assessment for OHL Design Using Ice-load Maps
<i>Lars Talhaug</i>	Z_12_ID164	Energy in Cold Climates IEA Task 19
<i>Lasse Makkonen</i>	A1_5_ID158	Relevance of ISO Ice Classes to Tower Structures
<i>Lasse Makkonen</i>	A3_5_ID176	Simulations vs. Observations of Supercooled Cloud Liquid Water at Ground Level; Sensitivity to Model Resolution and Cloud Microphysics Parameterizations
<i>László E. Kollár</i>	B5_3_ID224	Modeling of Cable Vibration Following Ice Shedding Propagation
<i>László E. Kollár</i>	B6_3_ID225	Numerical Modeling and Small-scale Experimental Simulation of Ice Shedding Propagation on Bundled Conductors
<i>Laszlo E. Kollar</i>	P1_32_ID219	Experimental Study of Spray Characteristics and Its Uniformity under Different Icing Conditions
<i>Lei Qingsheng</i>	P1_26_ID193	Anti-icing and Disaster-mitigating Coping Strategies for Hubei Power Grid
<i>Li Bo</i>	A4_2_ID114	Observational Studies of Hunan Transmission Line Icing at Microtopography and Micrometeorological
<i>Li Bo</i>	A5_2_ID112	Application of Analytic Hierarchy Process in Atmospheric Icing Climate Forecast of Power

		Network Based on Multiplex Climate Factors
Li Bo	A6_2_ID113	Short-term Forecast System of Ice-covering for Power Grid
Li Bo	A1_4_ID139	Transmission Lines Malfunction Imbalance Tension Trend Monitoring and Tilt Monitoring Device of Research
Li Bo	A2_6_ID131	Integrated Anti-fog Monitoring Methods of Power Transmission Line Ice Covering
Li Bo	C3_4_ID132	Research and Application of New AC/DC De-icing Devices in Hunan Power Grid
Li Bo	C4_1_ID116	A Novel Composite Insulator with Lightning Protection and Icing Flashover Prevention
Li Bo	P1_13_ID110	Analyze on the Ice-covering Recurrence Interval of Power Grid Based on PSO Optimization
Li Bo	P2_12_ID126	Utility Hybrid Overhead Ground Wire for Ice Melting with High Voltage and Large Current
Li Bo	P2_14_ID133	Research of De-icing Method and Device Based on 12-Pulse Rectification for 500kV Transmission Lines
Li Bo	A5_4_ID115	Research on Ice-covering Alarming Model for Transmission-line Based on the Multivariate Regression of Meteorological Factors
Li Bo	A6_4_ID135	Analysis of Hunan Power Grid Ice Disaster in 2008 and Related Series Anti-icing Technology Research
Li Bo	A6_5_ID138	Analysis and Simulated Research of Tower Collapse by Ice Disaster of Hunan In 2008
Li Chengrong	P1_33_ID222	Reliability Investigation of Fiber Bragg Grating Sensors Used in Icing Monitoring of Overhead Power Lines
Li Chengrong	C5_1_ID65	Influence of Hydrophobic Coating on Ice Accretion on Aluminum Conductor
Li Dongliang	P1_11_ID77	Variations of Meteorological Factors Concerning Ice and Comprehensive Assessment in Southwest
Li Hong	Z_07_ID95	Development of a Reinforcement Method for BC Hydro 230 kV Portal Towers through Numerical Analysis and a Full Scale Laboratory Test
Li Jian	P2_17_ID151	Inhibiting Ice Accumulation on Conductors Using Sleeves Treated with Super-hydrophobic Surfaces
Li Jian	C5_5_ID97	Analyze to Surface Leakage Currents on Super-hydrophobic Insulators under Icing Condition
Li Jin	Z_10_ID134	Study on Light Icing Performance of Composite Insulators at AC Voltage
Li Jing	A4_4_ID203	Shape Characteristic of Iced Conductor
Li Junfeng	A5_6_ID198	Analysis and Prevention Measures of Trapping of 1000KV Changnan I Line
Li Li	P2_18_ID152	Dynamic Responses of UHV Transmission Tower-line System after Ice-shedding in Heavy Ice Zones
Li Licheng	C1_3_ID101	Icing Flashover Characteristics of Insulators Strings with Different Alternating Sheds
Li Licheng	A5_5_ID137	Application of Smart Expert System for Icing on Transmission Line
Li Ning	B3_2_ID47	Prediction Model for Power Transmission Line Icing Load Based on Data-driven
Li Ning	P1_29_ID200	EHV Transmission Line Icing Analysis and Countermeasures Research
Li Peng	B3_2_ID47	Prediction Model for Power Transmission Line Icing Load Based on Data-driven
Li Qimao	B3_2_ID47	Prediction Model for Power Transmission Line Icing Load Based on Data-driven
Li Qingfeng	C1_5_ID154	Influence of Ice Thickness on DC Flashover Voltage of Ice Covered Insulation String
Li Qingfeng	C2_5_ID155	DC Flashover Performance of Iced Insulator Strings with Insulator Variety Structures
Li Te	C1_2_ID48	Comparative Study on Icing State and AC Flashover Performance between Composite Insulators under Energized and Non-energized Icing Condition
Li Weiguo	B1_2_ID82	Simulation Analysis of Bundled Conductors and Spacer-dampers in a Typical 500kV Transmission Line during DC Ice-melting
Li Xiaochun	P2_12_ID126	Utility Hybrid Overhead Ground Wire for Ice Melting with High Voltage and Large Current
Li Xiaodong	P1_05_ID58	Study on the Characteristics of Aerosol for Glaze Icing Manual Intervention

<i>Li Xiaodong</i>	P1_12_ID81	An Experimental Device Used to Measure Ice Nucleation Property of Pyrotechnics Formula
<i>Li Xiaolin</i>	C5_2_ID99	Switching Effect Optimization of Insulator' s Anti-ice Semi-conductive RTV Coating
<i>Li Xinyu</i>	B3_4_ID150	A Correction Method for CRREL Model to Estimate Ice-covered Value on Conductors
<i>Li Xudong</i>	C1_5_ID154	Influence of Ice Thickness on DC Flashover Voltage of Ice Covered Insulation String
<i>Li Xudong</i>	C2_5_ID155	DC Flashover Performance of Iced Insulator Strings with Insulator Variety Structures
<i>Li Xuelin</i>	Z_10_ID134	Study on Light Icing Performance of Composite Insulators at AC Voltage
<i>Li Yajun</i>	P1_28_ID199	Icing Features of Wire in Chongqing Region
<i>Li Yan</i>	B4_2_ID103	Wind Tunnel Tests and Numerical Simulations on the Performance Effects of Icing on Wind Turbine Blade
<i>Li Yan</i>	P1_06_ID64	Experimental Study on the Convection Heat Transfer of Air across Wires in the Icing Environmental Conditions
<i>Li Yan</i>	C5_2_ID99	Switching Effect Optimization of Insulator' s Anti-ice Semi-conductive RTV Coating
<i>Li Yan,</i>	P1_07_ID66	Experimental Study on the Collection Coefficient of Power Line Icing
<i>Li Zhaoting</i>	A5_5_ID137	Application of Smart Expert System for Icing on Transmission Line
<i>Li Zhining</i>	C1_3_ID101	Icing Flashover Characteristics of Insulators Strings with Different Alternating Sheds
<i>Liang Liqing</i>	C3_2_ID5	Comparison between AC and DC Short-circuit-current Ice-melting Methods
<i>Liang Ming</i>	P2_18_ID152	Dynamic Responses of UHV Transmission Tower-line System after Ice-shedding in Heavy Ice Zones
<i>Liang Ming</i>	A6_3_ID129	The Ice-covered Insulation Configuration of 1000kV AC Transmission Line
<i>Liang Yan</i>	C3_5_ID147	Modeling and On-site Experiments of Shunt Capacitor Compensation Method for Deicing of 66KV Power Line
<i>Liao Chunhua</i>	B2_2_ID229	Study on Characteristics of Atmospheric Layer' s Temperature Change in the Sleet Weather Process in 2008
<i>Lin Biyan</i>	A4_2_ID114	Observational Studies of Hunan Transmission Line Icing at Microtopography and Micrometeorological
<i>Liu Aijun</i>	P2_16_ID148	Meteorologic Characteristics and Standard Thickness Calculations of Wire Icing over the North Region of Guangdong Province
<i>Liu Bin</i>	B3_4_ID150	A Correction Method for CRREL Model to Estimate Ice-covered Value on Conductors
<i>Liu Bin</i>	C4_4_ID143	Current State and Prospect of Study on De-icing of Power Transmission Lines Using Mechanical Devices
<i>Liu Bo</i>	P2_13_ID128	Study on Variation of Melting Water Conductivity during Melting Period
<i>Liu Changhai</i>	Z_13_ID165	Using the Weather Research and Forecasting (WRF) Model to Predict Ground/Structural Icing
<i>Liu Chonghan</i>	P1_03_ID50	Using Fitting Slope Method Predicting Icing Parameters Based on Ice Mass of Rotating Multi-conductors
<i>Liu Chun</i>	B3_3_ID70	Numerical Simulation on the Ice-melting Process for High-current Wires
<i>Liu Chun</i>	P1_09_ID71	Calculation Study on Ice-melting Implementation Strategy of Transmission Lines
<i>Liu Chun</i>	P2_05_ID72	Comparative Analysis on Thermal Efficiency in AC/DC-Based De-icing
<i>Liu Chun</i>	A6_5_ID138	Analysis and Simulated Research of Tower Collapse by Ice Disaster of Hunan In 2008
<i>Liu Fan</i>	P2_30_ID204	Effect of Capacity Imbalances of 500 kV Standby Transformer on Its Current
<i>Liu Gang</i>	C3_5_ID147	Modeling and On-site Experiments of Shunt Capacitor Compensation Method for Deicing of 66KV Power Line
<i>Liu Heyun</i>	A2_4_ID111	Expert System of Icing and Anti-icing on Wires in Freezing Rain
<i>Liu Heyun</i>	P1_06_ID64	Experimental Study on the Convection Heat Transfer of Air across Wires in the Icing Environmental Conditions

<i>Liu Heyun</i>	P1_07_ID66	Experimental Study on the Collection Coefficient of Power Line Icing
<i>Liu Hongbin</i>	P2_15_ID146	Experimental Researches on Prevention of Ice Coating Galloping Using Small-scaled Simulated Transmission Line
<i>Liu Liang</i>	P2_15_ID146	Experimental Researches on Prevention of Ice Coating Galloping Using Small-scaled Simulated Transmission Line
<i>Liu Ping</i>	A4_4_ID203	Shape Characteristic of Iced Conductor
<i>Liu Ping</i>	P2_27_ID197	Simulation and Experimental Study on Maximum Temperature during Ice-melting of Ice-covered Conductors
<i>Liu Ping</i>	P2_30_ID204	Effect of Capacity Imbalances of 500 kV Standby Transformer on Its Current
<i>Liu Tiantian</i>	B2_2_ID229	Study on Characteristics of Atmospheric Layer's Temperature Change in the Sleet Weather Process in 2008
<i>Liu Xi</i>	P2_31_ID205	Research of Earth Surface Potential Distribution of UHVDC Grounding Electrode Based on CDEGS
<i>Liu Xiaohui</i>	B5_2_ID62	Numerical Simulation of De-icing Process of Iced Multi-span Transmission Lines under Shock Load
<i>Liu Xingsheng</i>	P1_26_ID193	Anti-icing and Disaster-mitigating Coping Strategies for Hubei Power Grid
<i>Liu Yadong</i>	P1_18_ID80	On-line Monitoring System of Ice-covered Overhead Transmission Line Based on Mechanical and Inclination Angle Measurement
<i>Liu Yaxin</i>	P2_15_ID146	Experimental Researches on Prevention of Ice Coating Galloping Using Small-scaled Simulated Transmission Line
<i>Liu Yu</i>	P1_02_ID30	Calculation Method of Maximum Conductor Temperature and Maximum Allowable Current in Transmission Line Ice-melting With Short-circuit
<i>Liu Yunpeng</i>	C4_2_ID118	Effect of Composite Assistant Shed on the Flashover Performance of Ice-covered Station Post Insulators
<i>Liu Zhenqiang</i>	A2_2_ID73	A New Method for Measuring Vertical Ice Adhesion Strength
<i>Liu Zhongquan</i>	A6_3_ID129	The Ice-covered Insulation Configuration of 1000kV AC Transmission Line
<i>Liu Zijun</i>	C3_5_ID147	Modeling and On-site Experiments of Shunt Capacitor Compensation Method for Deicing of 66KV Power Line
<i>Lu Jiazheng</i>	A1_4_ID139	Transmission Lines Malfunction Imbalance Tension Trend Monitoring and Tilt Monitoring Device of Research
<i>Lu Jiazheng</i>	A2_6_ID131	Integrated Anti-fog Monitoring Methods of Power Transmission Line Ice Covering
<i>Lu Jiazheng</i>	B3_3_ID70	Numerical Simulation on the Ice-melting Process for High-current Wires
<i>Lu Jiazheng</i>	C3_4_ID132	Research and Application of New AC/DC De-icing Devices in Hunan Power Grid
<i>Lu Jiazheng</i>	A4_2_ID114	Observational Studies of Hunan Transmission Line Icing at Microtopography and Micrometeorological
<i>Lu Jiazheng</i>	C4_1_ID116	A Novel Composite Insulator with Lightning Protection and Icing Flashover Prevention
<i>Lu Jiazheng</i>	P1_13_ID110	Analyze on the Ice-covering Recurrence Interval of Power Grid Based on PSO Optimization
<i>Lu Jiazheng</i>	P2_05_ID72	Comparative Analysis on Thermal Efficiency in AC/DC-Based De-icing
<i>Lu Jiazheng</i>	P2_12_ID126	Utility Hybrid Overhead Ground Wire for Ice Melting with High Voltage and Large Current
<i>Lu Jiazheng</i>	P2_14_ID133	Research of De-icing Method and Device Based on 12-Pulse Rectification for 500kV Transmission Lines
<i>Lu Jiazheng</i>	A5_2_ID112	Application of Analytic Hierarchy Process in Atmospheric Icing Climate Forecast of Power Network Based on Multiplex Climate Factors
<i>Lu Jiazheng</i>	A5_4_ID115	Research on Ice-covering Alarming Model for Transmission-line Based on the Multivariate Regression of Meteorological Factors

<i>Lu Jiazheng</i>	A6_2_ID113	Short-term Forecast System of Ice-covering for Power Grid
<i>Lu Jiazheng</i>	A6_4_ID135	Analysis of Hunan Power Grid Ice Disaster in 2008 and Related Series Anti-icing Technology Research
<i>Lu Jiazheng</i>	A6_5_ID138	Analysis and Simulated Research of Tower Collapse by Ice Disaster of Hunan In 2008
<i>Lu Jiazheng</i>	P1_09_ID71	Calculation Study on Ice-melting Implementation Strategy of Transmission Lines
<i>Luc Chouinard</i>	P1_34_ID227	A Comparison of Wind and Ice Loads for the Design of Transmission Lines
<i>Luo Enyi</i>	P1_35_ID 228	Survey and Analysis of Flashover Accidents on Icing Insulators in EHV Transmission Lines in China
<i>Luo Jing</i>	A1_4_ID139	Transmission Lines Malfunction Imbalance Tension Trend Monitoring and Tilt Monitoring Device of Research
<i>Luo Jing</i>	A2_6_ID131	Integrated Anti-fog Monitoring Methods of Power Transmission Line Ice Covering
<i>Luo Jing</i>	A6_4_ID135	Analysis of Hunan Power Grid Ice Disaster in 2008 and Related Series Anti-icing Technology Research
<i>Luo Ling</i>	Z_17_ID215	Study on Simulation Experiment on Impulse Characteristics of Grounding Devices in the Freeze-thaw Soil
<i>Luo Yingting</i>	P1_33_ID222	Reliability Investigation of Fiber Bragg Grating Sensors Used in Icing Monitoring of Overhead Power Lines
<i>Lv Yuxiang</i>	Z_16_ID212	On-Line Monitoring of Icing Thickness on Transmission Line with Interval Estimation Method based on Tension Backstepping and Image Detecting
<i>Lv Yuzhen</i>	C5_1_ID65	Influence of Hydrophobic Coating on Ice Accretion on Aluminum Conductor
<i>M. Farzaneh</i>	P2_09_ID184	Time-dependent Hydrophobic and Ice-releasing Properties of Different Flat Alkyl-terminated Coatings on AA6061
<i>M. Farzaneh</i>	P2_21_ID178	The Equivalent Thermal Conductivity of Snow Sleeves on Overhead Transmission Lines
<i>M. Farzaneh</i>	Z_19_ID218	A Method for Designing Booster Sheds on Post Insulators under Icing Conditions
<i>M. Farzaneh</i>	C2_3_ID186	DC Flashover Performance of Insulators under Icing Conditions
<i>M. Farzaneh</i>	P1_30_ID226	Experimental Study of Flow Characteristics around a Circular Cylinder with Different Ice Profiles
<i>M. Farzaneh</i>	P2_11_ID185	Leakage Current Simulation of a Pre-contaminated Insulator Covered with Snow
<i>M. Farzaneh</i>	P2_20_ID175	Wettability Behavior of Superhydrophobic Silicone Rubber Coatings at Supercooled Temperatures
<i>M. Farzaneh</i>	P2_23_ID187	On the Role of the Surface Dielectric Constant for Icephobic Coating Applications
<i>M. Farzaneh</i>	P2_28_ID201	Numerical Simulations of Ice Shedding on Single-span Models
<i>M. Farzaneh</i>	A5_3_ID179	A Wet Snow Failure Model for Predicting Snow Shedding from an Overhead Cable
<i>M. Farzaneh</i>	C5_3_ID171	Icephobic and Superhydrophobic Silicone Rubber Coatings for Outdoor Insulators
<i>M. Kikuchi</i>	P1_10_ID76	Study of Snowdrift around Buildings of Antarctica Using Numerical Analysis
<i>M. L. Lu</i>	B3_5_ID182	A Semi-empirical Icing Model for Energized Conductors
<i>M.L.Goa</i>	C3_3_ID160	Some Solutions for Icing Prevention
<i>M.Matsuzawa</i>	C4_3_ID209	Conditions for Installation of Snow Accretion Countermeasures On Road Information Signs
<i>Ma Guoming</i>	P1_33_ID222	Reliability Investigation of Fiber Bragg Grating Sensors Used in Icing Monitoring of Overhead Power Lines
<i>Ma Hui</i>	B4_5_ID207	Numerical Simulation of De-icing and Ice Shedding on Multilayered Structures
<i>Ma Jun</i>	P1_35_ID 228	Survey and Analysis of Flashover Accidents on Icing Insulators in EHV Transmission Lines in China
<i>Ma Shaoshi</i>	C2_4_ID119	Icing Flashover Characteristics of EHV Transmission Line Insulators under Sever Icing
<i>Marc Leclerc</i>	Z_06_ID94	Technological Developments to Prevent Damages on Powerline Transmission Network

<i>Masanori Isozaki</i>	P2_07_ID91	New Results on the Anti-icing Performance of LC-Spiral Rods
<i>Masaru</i>	P2_32_ID208	Improvement of Simple Measures to Prevent Snow Accumulating on Road Information Signs in Regions with Heavy Snowfall
<i>Matsuzawa</i>		
<i>Masaru</i>	B6_1_ID206	Possibility of Damage Caused by Impact and Scattering of Falling Snow on Road Information Signs
<i>Matsuzawa</i>		
<i>Masoud Farzaneh</i>	K2	Progress Report on IEEE Standards and CIGRE Activities with Respect to Icing of Overhead Lines
<i>Masoud Farzaneh</i>	B4_3_ID177	Experimental Study of the Influence of the Type of Material, Roughness and Temperature on Ice Adhesion
<i>Masoud Farzaneh</i>	P1_21_ID166	Roughness Characteristics in Aufeis Morphology
<i>Masoud Farzaneh</i>	P1_32_ID219	Experimental Study of Spray Characteristics and Its Uniformity under Different Icing Conditions
<i>Masoud Farzaneh</i>	P2_19_ID174	Superhydrophobic and Anti-icing Coatings on Aluminum Alloy Surfaces
<i>Masoud Farzaneh</i>	B5_3_ID224	Modeling of Cable Vibration Following Ice Shedding Propagation
<i>Masoud Farzaneh</i>	B6_3_ID225	Numerical Modeling and Small-scale Experimental Simulation of Ice Shedding Propagation on Bundled Conductors
<i>Masoud Farzaneh</i>	C6_3_ID173	Stable Icephobic Teflon-Like Coatings Deposited On an Anodized Aluminum Surface
<i>Masoud</i>	Z_14_ID172	Wettability Behavior of Superhydrophobic Silicone Rubber Coatings at Supercooled Temperatures
<i>FARZANEH</i>		
<i>Masoud Farzaneh</i>	P2_22_ID183	Ice-releasing Properties of Various Nanostructured Superhydrophobic Coatings on an Aluminum Surface
<i>Masoud Farzaneh,</i>	P1_22_ID167	Convective Heat Transfer Coefficient in Air/Liquid-water/Ice/Solid-wall Multi-phase System
<i>Matteo Lacavalla</i>	B2_1_ID90	The WOLF System: Forecasting Wet-snow Loads On Power Lines in Italy
<i>Matti Lehtonen</i>	C3_5_ID147	Modeling and On-site Experiments of Shunt Capacitor Compensation Method for Deicing of 66KV Power Line
<i>Meng Fanxin</i>	B4_5_ID207	Numerical Simulation of De-icing and Ice Shedding on Multilayered Structures
<i>Meng Gang</i>	P1_36_ID230	Application of the Composite Insulator with the Optic Fiber Sensors in Icing-monitoring of Overhead Transmission Lines
<i>Merkebu Degefa</i>	C3_5_ID147	Modeling and On-site Experiments of Shunt Capacitor Compensation Method for Deicing of 66KV Power Line
<i>Michael Durstewitz</i>	Z_12_ID164	Energy in Cold Climates IEA Task 19
<i>Michel Bourdages</i>	Z_06_ID94	Technological Developments to Prevent Damages on Powerline Transmission Network
<i>Mika Hirviniemi</i>	A1_5_ID158	Relevance of ISO Ice Classes to Tower Structures
<i>Min Jianfeng</i>	P1_20_ID145	Summarization of On-line Icing-monitoring Methods of Transmission Lines
<i>Mo Wenqiang</i>	P1_02_ID30	Calculation Method of Maximum Conductor Temperature and Maximum Allowable Current in Transmission Line Ice-melting With Short-circuit
<i>Mo Wenqiang</i>	P1_28_ID199	Icing Features of Wire in Chongqing Region
<i>Mo Yiwei</i>	B6_5_ID169	Analysis of Mechanism of Galloping of Iced Conductor
<i>MoWenqiang</i>	P1_35_ID 228	Survey and Analysis of Flashover Accidents on Icing Insulators in EHV Transmission Lines in China
<i>Mu Jingjing</i>	A2_2_ID73	A New Method for Measuring Vertical Ice Adhesion Strength
<i>Muhammad Tariq</i>	C1_4_ID12	Comparison of DC Icing Flashover Performances for Pre-polluted Short Samples of Composite Insulators with Different Configuration in High Altitude Area
<i>Nazir</i>		
<i>Muhammad Tariq</i>	P2_04_ID53	Influence of Test Methods on DC Flashover Performance of Ice-covered Composite Insulators
<i>Nazir</i>		

<i>N. Popplewell</i>	B3_5_ID182	A Semi-empirical Icing Model for Energized Conductors
<i>Nadine Rehfeld</i>	Z_02_ID29	Anti-ice Coatings: Science or Fiction?
<i>Nils Gustavsson</i>	P1_01_ID8	Comparative Performance of Silicone Rubber and Porcelain Hollow Insulators under Specific Ice and Salt Fog Conditions of Iceland
<i>Ning Liang</i>	C5_4_ID108	The Preparation of Fluorine-silicon Resin and the Research on its Anti-icing Properties
<i>Noriyoshi Sugawara</i>	P2_07_ID91	New Results on the Anti-icing Performance of LC-Spiral Rods
<i>Noriyoshi Sugawara</i>	P2_35_ID220	Insulation Decrease Due to the Increase of Water Film Conductivity Formed on Ice and Icicles Accreted on Sheds of Insulator
<i>O.Sakase</i>	C4_3_ID209	Conditions for Installation of Snow Accretion Countermeasures On Road Information Signs
<i>Ola Onifade</i>	Z_07_ID95	Development of a Reinforcement Method for BC Hydro 230 kV Portal Towers through Numerical Analysis and a Full Scale Laboratory Test
<i>Ólafur Rögnvaldsson,</i>	A4_5_ID231	Comparison between Simulations and Measurements of In-cloud Icing in Test Spans
<i>Osamu Sakase</i>	P2_32_ID208	Improvement of Simple Measures to Prevent Snow Accumulating on Road Information Signs in Regions with Heavy Snowfall
<i>Osamu Sakase</i>	B6_1_ID206	Possibility of Damage Caused by Impact and Scattering of Falling Snow on Road Information Signs
<i>P. Montpellier</i>	P2_21_ID178	The Equivalent Thermal Conductivity of Snow Sleeves on Overhead Transmission Lines
<i>P. Thorsson</i>	A2_1_ID88	Validation of Icing Measurements
<i>P. Van Dyke</i>	P1_30_ID226	Experimental Study of Flow Characteristics around a Circular Cylinder with Different Ice Profiles
<i>Paolo Bonelli</i>	B2_1_ID90	The WOLF System: Forecasting Wet-snow Loads On Power Lines in Italy
<i>Pau Casso</i>	Z_15_ID181	Icing Probability Estimation Based on WRF Model Hindcast
<i>Peng Xiangyang</i>	C6_4_ID136	Analysis of Thermal Distribution along Insulator Strings with Semiconducting RTV
<i>Pep Morenon</i>	Z_15_ID181	Icing Probability Estimation Based on WRF Model Hindcast
<i>Per Undén</i>	B1_1_ID89	Towards a High-resolution Icing Climatology In Sweden
<i>Per Undén</i>	Z_05_ID87	Prediction of Atmospheric Icing with AROME
<i>Pertti Lehtonen</i>	A1_5_ID158	Relevance of ISO Ice Classes to Tower Structures
<i>Petr Musilek</i>	B2_4_ID157	A Predictive Indicator of Icing Damage Risk
<i>Petra Thorsson</i>	B1_1_ID89	Towards a High-resolution Icing Climatology In Sweden
<i>Pierre Couture</i>	Z_06_ID94	Technological Developments to Prevent Damages on Powerline Transmission Network
<i>Pierre Van Dyke</i>	P1_32_ID219	Experimental Study of Spray Characteristics and Its Uniformity under Different Icing Conditions
<i>Pierre Van Dyke</i>	B5_3_ID224	Modeling of Cable Vibration Following Ice Shedding Propagation
<i>Pietro Marcacci</i>	B2_1_ID90	The WOLF System: Forecasting Wet-snow Loads On Power Lines in Italy
<i>Qin Peng</i>	P2_16_ID148	Meteorologic Characteristics and Standard Thickness Calculations of Wire Icing over the North Region of Guangdong Province
<i>R. Menini</i>	P2_23_ID187	On the Role of the Surface Dielectric Constant for Icephobic Coating Applications
<i>René Cattin</i>	A1_3_ID25	WIRE: Weather Intelligence for Renewable Energies
<i>René Cattin</i>	Z_01_ID13	Wind Turbine Blade Heating - Does It Pay?
<i>Reza Jafari</i>	P2_19_ID174	Superhydrophobic and Anti-icing Coatings on Aluminum Alloy Surfaces
<i>Reza Jafari</i>	C6_3_ID173	Stable Icephobic Teflon-Like Coatings Deposited On an Anodized Aluminum Surface
<i>Richard Menini</i>	B4_3_ID177	Experimental Study of the Influence of the Type of Material, Roughness and Temperature on Ice Adhesion

<i>Robert Morris</i>	P1_08_ID93	In-cloud Icing Simulation with GEM-LAM Model
<i>Rolf Westerlund</i>	Z_03_ID75	Measured Power Losses in Wind PowerPlants due to Icing
<i>Roxane Alavi</i>	Z_06_ID94	Technological Developments to Prevent Damages on Powerline Transmission Network
<i>Roy Rasmussen</i>	Z_13_ID165	Using the Weather Research and Forecasting (WRF) Model to Predict Ground/Structural Icing
<i>Ruan Lin</i>	P1_24_ID190	Icing Monitoring Technology of Transmission Lines
<i>Ruan Ling</i>	P1_25_ID192	Pre-failure Diagnosis of Substation Electrical Equipment under Icing Condition and Preventive Techniques
<i>Ruan Ling</i>	P2_25_ID191	Principle and Technical Measure for the Anti-icing of Transmission Line
<i>Ruan Ling</i>	P1_23_ID188	The Ice Monitoring Technology of Transmission Lines
<i>Ruan Ling</i>	P1_26_ID193	Anti-icing and Disaster-mitigating Coping Strategies for Hubei Power Grid
<i>S. Farhadi</i>	P2_09_ID184	Time-dependent Hydrophobioc and Ice-releasing Properties of Different Flat Alkyl-terminated Coatings on AA6061
<i>S. Kimura</i>	P1_10_ID76	Study of Snowdrift around Buildings of Antarctica Using Numerical Analysis
<i>S. Kumar</i>	Z_19_ID218	A Method for Designing Booster Sheds on Post Insulators under Icing Conditions
<i>S. M. Ale Emran</i>	Z_19_ID218	A Method for Designing Booster Sheds on Post Insulators under Icing Conditions
<i>S. Söderberg</i>	A2_1_ID88	Validation of Icing Measurements
<i>S. Taheri</i>	C2_3_ID186	DC Flashover Performance of Insulators under Icing Conditions
<i>S. Taheri</i>	P2_11_ID185	Leakage Current Simulation of a Pre-contaminated Insulator Covered with Snow
<i>S.A. Kulinich</i>	P2_09_ID184	Time-dependent Hydrophobioc and Ice-releasing Properties of Different Flat Alkyl-terminated Coatings on AA6061
<i>Satsuk Evgeniy</i>	Z_11_ID142	Monitoring Overhead Power Lines in Extreme Weather Conditions
<i>Serge</i>	Z_06_ID94	Technological Developments to Prevent Damages on Powerline Transmission Network
<i>Montambault</i>		
<i>Sergei .A. Kulinich</i>	P2_22_ID183	Ice-releasing Properties of Various Nanostructured Superhydrophobic Coatings on an Aluminum Surface
<i>Sergey</i>	B2_3_ID107	Climatic Loads Assessment for OHL Design Using Ice-load Maps
<i>Chereshniuk</i>		
<i>Seyedeh Nasim</i>	P1_34_ID227	A Comparison of Wind and Ice Loads for the Design of Transmission Lines
<i>Rezaei</i>		
<i>Shahram Farhadi</i>	P2_22_ID183	Ice-releasing Properties of Various Nanostructured Superhydrophobic Coatings on an Aluminum Surface
<i>Shang Yu</i>	C2_2_ID59	Flashover Performance of 330kV Ice-covered Composite Insulators of Different Shed Profiles
<i>Shen Qiang</i>	P1_03_ID50	Using Fitting Slope Method Predicting Icing Parameters Based on Ice Mass of Rotating Multi-conductors
<i>Sheng Gehao</i>	P1_18_ID80	On-line Monitoring System of Ice-covered Overhead Transmission Line Based on Mechanical and Inclination Angle Measurement
<i>Shi Shengzhi</i>	A5_6_ID198	Analysis and Prevention Measures of Trapping of 1000KV Changnan I Line
<i>Shi Yan</i>	C2_4_ID119	Icing Flashover Characteristics of EHV Transmission Line Insulators under Sever Icing
<i>Shi Yan</i>	C4_2_ID118	Effect of Composite Assistant Shed on the Flashover Performance of Ice-covered Station Post Insulators
<i>Shigeo Kimura</i>	A1_1_ID83	Incorrect Wind Measurement Due to Icing on Heated Ultrasonic Anemometer
<i>Shu Lichun</i>	A1_2_ID4	Study on Diameter Correction Coefficient of the Icing Thickness of the Conductors
<i>Shu Lichun</i>	C1_2_ID48	Comparative Study on Icing State and AC Flashover Performance between Composite

		Insulators under Energized and Non-energized Icing Condition
Shu Lichun	A3_2_ID51	Research on the Calculation of Deviation Angle of Icicle Build-up on Insulators and Its Influential Factor
Shu Lichun	P2_17_ID151	Inhibiting Ice Accumulation on Conductors Using Sleeves Treated with Super-hydrophobic Surfaces
Shu Lichun	P2_37_ID18	Electric Field Calculation of 330kV Ice-covered Composite Insulators Using the Finite Element Method
Shu Lichun	P2_36_ID223	Testing Method on DC Artificially Iced Disk-shaped and Suspension Insulators
Shu Lichun	P2_34_ID217	Research on the Frequent and Phase Characteristics of Leakage Current of Iced Insulators
Sima Wenxia	P2_02_ID49	The Electric Field and Potential Distribution of Composite Insulator with Series Connection of Glass Insulator
Sima Wenxia	Z_17_ID215	Study on Simulation Experiment on Impulse Characteristics of Grounding Devices in the Freeze-thaw Soil
Siva K. Nadarajah	B2_5_ID163	A Computational Aeroelastic Approach to Predict Galloping of Iced Conductors with Three Degrees of Freedom
Song Jian	A5_4_ID115	Research on Ice-covering Alarming Model for Transmission-line Based on the Multivariate Regression of Meteorological Factors
Song Lili	P2_16_ID148	Meteorologic Characteristics and Standard Thickness Calculations of Wire Icing over the North Region of Guangdong Province
Song Tinglu	P1_05_ID58	Study on the Characteristics of Aerosol for Glaze Icing Manual Intervention
Song Tinglu	P1_12_ID81	An Experimental Device Used to Measure Ice Nucleation Property of Pyrotechnics Formula
Southwest Electric Power Design Institute	C1_6	Introduction of Power Grid Design in Icing Areas (having made an appointment)
Stefan Söderberg	B1_1_ID89	Towards a High-resolution Icing Climatology In Sweden
Su Huafeng	C1_3_ID101	Icing Flashover Characteristics of Insulators Strings with Different Alternating Sheds
Su Huafeng	P1_19_ID141	The Design Principle of Anti-icing Insulator Based on Switch Effect and Gradual Change of Bushing Surface Resistivity
Sun Caixin	C1_4_ID12	Comparison of DC Icing Flashover Performances for Pre-polluted Short Samples of Composite Insulators with Different Configuration in High Altitude Area
Sun Caixin	C2_2_ID59	Flashover Performance of 330kV Ice-covered Composite Insulators of Different Shed Profiles
Sun Caixin	C3_1_ID67	The Method and Test of De-icing on Four Bundled-conductors by Leading Running Current into Various Sub-conductor Combinations
Sun Caixin	C4_5_ID213	The Method and Implementation of Icing and De-icing at Xuefeng Mountain Natural Icing Station
Sun Caixin	P2_01_ID3	Study on Imbalance Tensile Forces with Tower for Non-contemporaneous Ice Shedding
Sun Caixin	B6_2_ID68	Experiments and Analysis of Crystallization Effect during the Freezing Water Transition from Liquid to Solid Phase in Natural Environment
Sun Lei	C3_5_ID147	Modeling and On-site Experiments of Shunt Capacitor Compensation Method for Deicing of 66KV Power Line
Sun Muxia	B4_4_ID159	The Regression Model of Transmission Line Icing Based on Neural Networks
Sun Xian	P2_29_ID202	The Modeling of Ice Accretion on Transmission Line at Huanjialing
Sun Yujiang	P1_35_ID 228	Survey and Analysis of Flashover Accidents on Icing Insulators in EHV Transmission Lines in China

<i>Svein M Fikke</i>	B1_5_ID161	A UK Probabilistic Wind/Ice Map
<i>Sveinung Løset</i>	B4_1_ID63	Sea Spray Icing: In-cloud Evaporation. Semi-Analytical and Numerical Investigations
<i>T. Kojima</i>	P1_10_ID76	Study of Snowdrift around Buildings of Antarctica Using Numerical Analysis
<i>Takeshi Sato</i>	A1_1_ID83	Incorrect Wind Measurement Due to Icing on Heated Ultrasonic Anemometer
<i>Takuya Yoshimatsu</i>	A5_1_ID60	Evaluation of a Physical Snow Accretion Model by Laboratory Experiment
<i>Tan Rong</i>	P1_17_ID124	Ice Structure Analysis of the Erlang Mountain
<i>Tan Yanjun</i>	C3_4_ID132	Research and Application of New AC/DC De-icing Devices in Hunan Power Grid
<i>Tan Yanjun</i>	P2_14_ID133	Research of De-icing Method and Device Based on 12-Pulse Rectification for 500kV Transmission Lines
<i>Tan Yanjun</i>	A6_4_ID135	Analysis of Hunan Power Grid Ice Disaster in 2008 and Related Series Anti-icing Technology Research
<i>Tan Zhangying</i>	P2_25_ID191	Principle and Technical Measure for the Anti-icing of Transmission Line
<i>Tan Zhihong</i>	C2_2_ID59	Flashover Performance of 330kV Ice-covered Composite Insulators of Different Shed Profiles
<i>Tan Zhihong</i>	P2_01_ID3	Study on Imbalance Tensile Forces with Tower for Non-contemporaneous Ice Shedding
<i>Tang Yonghong</i>	P2_30_ID204	Effect of Capacity Imbalances of 500 kV Standby Transformer on Its Current
<i>Teruo Aso</i>	C2_1_ID26	Development of Flashover Voltage Test Method for Snow Accreted Insulators -Preliminary Test with 33kV Class Insulator Samples-
<i>Tetsuya Kojima</i>	A1_1_ID83	Incorrect Wind Measurement Due to Icing on Heated Ultrasonic Anemometer
<i>Tian Wenqiang</i>	B4_2_ID103	Wind Tunnel Tests and Numerical Simulations on the Performance Effects of Icing on Wind Turbine Blade
<i>Timo Laakso</i>	Z_12_ID164	Energy in Cold Climates IEA Task 19
<i>Tomas Wallenius</i>	Z_12_ID164	Energy in Cold Climates IEA Task 19
<i>Tomoki Watanabe</i>	A5_1_ID60	Evaluation of a Physical Snow Accretion Model by Laboratory Experiment
<i>Tong Yuliang</i>	C1_5_ID154	Influence of Ice Thickness on DC Flashover Voltage of Ice Covered Insulation String
<i>Tong Yuliang</i>	C2_5_ID155	DC Flashover Performance of Iced Insulator Strings with Insulator Variety Structures
<i>Tu Haixia</i>	B5_5_ID109	Study on Fractal Characteristics of Aircraft Icing Microstructure
<i>Ulf Andrae</i>	B1_1_ID89	Towards a High-resolution Icing Climatology In Sweden
<i>Ulf Andrae</i>	Z_05_ID87	Prediction of Atmospheric Icing with AROME
<i>Victor F. Petrenko</i>	Z_18_ID216	Variable Resistance Conductors for Deicing Aerial Transmission Power Lines
<i>Vladimir Lugovoi</i>	B2_3_ID107	Climatic Loads Assessment for OHL Design Using Ice-load Maps
<i>Volkmar Stenzel</i>	Z_02_ID29	Anti-ice Coatings: Science or Fiction?
<i>W.G. Habashi</i>	K3	Cross-fertilizing the Technologies of Atmospheric Icing on Structures and In-flight Structural Icing
<i>Wagdi G. Habashi</i>	B2_5_ID163	A Computational Aeroelastic Approach to Predict Galloping of Iced Conductors with Three Degrees of Freedom
<i>Wagdi G. Habashi</i>	B5_1_ID28	On Computational Modeling of Interactive Wind and Icing Effects on Overhead Line Conductors
<i>Wagdi G. Habashi</i>	Z_09_ID130	Numerical Investigation of Iced-conductors Oscillations in the Wake of Windward Conductors
<i>Wan Qifa</i>	C2_4_ID119	Icing Flashover Characteristics of EHV Transmission Line Insulators under Sever Icing
<i>Wan Qifa</i>	C4_2_ID118	Effect of Composite Assistant Shed on the Flashover Performance of Ice-covered Station Post Insulators
<i>Wan Xiaodong</i>	C6_5_ID153	Development and Investigation of a New Kind of Anti-icing Coating with Ice-melting Performance

<i>Wan Xiecheng</i>	B2_2_ID229	Study on Characteristics of Atmospheric Layer' s Temperature Change in the Sleet Weather Process in 2008
<i>Wang Daxing</i>	P2_27_ID197	Simulation and Experimental Study on Maximum Temperature during Ice-melting of Ice-covered Conductors
<i>Wang Fochi</i>	C5_1_ID65	Influence of Hydrophobic Coating on Ice Accretion on Aluminum Conductor
<i>Wang Guogang</i>	A2_2_ID73	A New Method for Measuring Vertical Ice Adhesion Strength
<i>Wang Hanqing</i>	A2_4_ID111	Expert System of Icing and Anti-icing on Wires in Freezing Rain
<i>Wang Haoyu</i>	P1_28_ID199	Icing Features of Wire in Chongqing Region
<i>Wang Jilai</i>	P2_08_ID96	Research on Catenary Anti-icing (Ice-melting) Technology in High-speed Railway
<i>Wang Kui</i>	P1_18_ID80	On-line Monitoring System of Ice-covered Overhead Transmission Line Based on Mechanical and Inclination Angle Measurement
<i>Wang Qi</i>	P2_29_ID202	The Modeling of Ice Accretion on Transmission Line at Huanjialing
<i>Wang Qiang</i>	P2_08_ID96	Research on Catenary Anti-icing (Ice-melting) Technology in High-speed Railway
<i>Wang Ruizhen</i>	P1_27_ID194	Introduction of Anti-icing and Mitigation Researches Done by CEATI
<i>Wang Tao</i>	P1_23_ID188	The Ice Monitoring Technology of Transmission Lines
<i>Wang Tao</i>	P1_24_ID190	Icing Monitoring Technology of Transmission Lines
<i>Wang Tao</i>	P1_25_ID192	Pre-failure Diagnosis of Substation Electrical Equipment under Icing Condition and Preventive Techniques
<i>Wang Tao</i>	P1_26_ID193	Anti-icing and Disaster-mitigating Coping Strategies for Hubei Power Grid
<i>Wang Tao</i>	P1_27_ID194	Introduction of Anti-icing and Mitigation Researches Done by CEATI
<i>Wang Tao</i>	P2_24_ID189	Feasibility Compare of Removing and Melting Ice Technology of Transmission Line
<i>Wang Tao</i>	P2_25_ID191	Principle and Technical Measure for the Anti-icing of Transmission Line
<i>Wang Tao</i>	P1_31_ID195	Anti-ice Shedding Technology of Transmission Line
<i>Wang Wei</i>	C5_2_ID99	Switching Effect Optimization of Insulator' s Anti-ice Semi-conductive RTV Coating
<i>Wang Xianming</i>	C5_4_ID108	The Preparation of Fluorine-silicon Resin and the Research on its Anti-icing Properties
<i>Wang Xiaofeng</i>	C1_2_ID48	Comparative Study on Icing State and AC Flashover Performance between Composite Insulators under Energized and Non-energized Icing Condition
<i>Wang Yongqin,</i>	P1_25_ID192	Pre-failure Diagnosis of Substation Electrical Equipment under Icing Condition and Preventive Techniques
<i>Wang Zhangqi</i>	B6_4_ID84	Joint Slippage Effects on Mechanical Behavior of a New Anti-icing Tower
<i>Wei Xiaoxing</i>	P1_19_ID141	The Design Principle of Anti-icing Insulator Based on Switch Effect and Gradual Change of Bushing Surface Resistivity
<i>Wei Xiaoxing</i>	C6_4_ID136	Analysis of Thermal Distribution along Insulator Strings with Semiconducting RTV
<i>Wu Bin</i>	P1_02_ID30	Calculation Method of Maximum Conductor Temperature and Maximum Allowable Current in Transmission Line Ice-melting With Short-circuit
<i>Wu Guangning</i>	P2_31_ID205	Research of Earth Surface Potential Distribution of UHVDC Grounding Electrode Based on CDEGS
<i>Wu Guoqiang</i>	P1_15_ID121	Analysis of Design Ice Thickness Value in Erlang Mountain
<i>Wu Suliang</i>	P2_29_ID202	The Modeling of Ice Accretion on Transmission Line at Huanjialing
<i>Wu Ya</i>	P1_37_ID232	Study of On-line Icing Monitoring System and Typical Case Analysis of Guangdong Power Grid
<i>X. Zhang</i>	A4_1_ID170	Technological Developments for the Study of Guy Cable Damage Induced By Atmospheric Icing on High Voltage Transmission Lines
<i>Xia Yunfeng</i>	P1_38_ID17	The Calculation of Electric Field along the Surface of 1100kV Station Post Insulator under Impulse Voltage Based on ANSYS

<i>Xia Yunfeng</i>	P2_37_ID18	Electric Field Calculation of 330kV Ice-covered Composite Insulators Using the Finite Element Method
<i>Xia Yunfeng</i>	P2_34_ID217	Research on the Frequent and Phase Characteristics of Leakage Current of Iced Insulators
<i>Xiang Ze</i>	B6_2_ID68	Experiments and Analysis of Crystallization Effect during the Freezing Water Transition from Liquid to Solid Phase in Natural Environment
<i>Xiao En</i>	C3_2_ID5	Comparison between AC and DC Short-circuit-current Ice-melting Methods
<i>Xiao Sheng</i>	B2_2_ID229	Study on Characteristics of Atmospheric Layer' s Temperature Change in the Sleet Weather Process in 2008
<i>Xiaolin Li</i>	P2_06_ID79	The Anti-icy Effect on Insulators Based on the Hydrophobicity and Heating Effect of Semiconductive RTV Coating
<i>Xie Pengkang</i>	C4_1_ID116	A Novel Composite Insulator with Lightning Protection and Icing Flashover Prevention
<i>Xie Xiuyu</i>	C2_2_ID59	Flashover Performance of 330kV Ice-covered Composite Insulators of Different Shed Profiles
<i>Xie Yi</i>	B3_3_ID70	Numerical Simulation on the Ice-melting Process for High-current Wires
<i>Xie Yi</i>	P1_09_ID71	Calculation Study on Ice-melting Implementation Strategy of Transmission Lines
<i>Xie Yi</i>	P2_05_ID72	Comparative Analysis on Thermal Efficiency in AC/DC-Based De-icing
<i>Xiong Guokun</i>	B1_2_ID82	Simulation Analysis of Bundled Conductors and Spacer-dampers in a Typical 500kV Transmission Line during DC Ice-melting
<i>Xiong Peng</i>	P1_36_ID230	Application of the Composite Insulator with the Optic Fiber Sensors in Icing-monitoring of Overhead Transmission Lines
<i>Xu An</i>	P2_27_ID197	Simulation and Experimental Study on Maximum Temperature during Ice-melting of Ice-covered Conductors
<i>Xu Tao</i>	C2_4_ID119	Icing Flashover Characteristics of EHV Transmission Line Insulators under Sever Icing
<i>Xu Tao</i>	C4_2_ID118	Effect of Composite Assistant Shed on the Flashover Performance of Ice-covered Station Post Insulators
<i>Xu Xunjian</i>	A5_2_ID112	Application of Analytic Hierarchy Process in Atmospheric Icing Climate Forecast of Power Network Based on Multiplex Climate Factors
<i>Xu Xunjian</i>	A2_6_ID131	Integrated Anti-fog Monitoring Methods of Power Transmission Line Ice Covering
<i>Xu Xunjian</i>	P2_12_ID126	Utility Hybrid Overhead Ground Wire for Ice Melting with High Voltage and Large Current
<i>Xu Xunjian</i>	A6_4_ID135	Analysis of Hunan Power Grid Ice Disaster in 2008 and Related Series Anti-icing Technology Research
<i>Xu Xunjian</i>	A6_5_ID138	Analysis and Simulated Research of Tower Collapse by Ice Disaster of Hunan In 2008
<i>Xu Yueneng</i>	P2_13_ID128	Study on Variation of Melting Water Conductivity during Melting Period
<i>Xu Zhihai</i>	P1_19_ID141	The Design Principle of Anti-icing Insulator Based on Switch Effect and Gradual Change of Bushing Surface Resistivity
<i>Xu Zhihai</i>	C6_4_ID136	Analysis of Thermal Distribution along Insulator Strings with Semiconducting RTV
<i>Xu Zuoming</i>	C2_4_ID119	Icing Flashover Characteristics of EHV Transmission Line Insulators under Sever Icing
<i>Xu Zuoming</i>	C4_2_ID118	Effect of Composite Assistant Shed on the Flashover Performance of Ice-covered Station Post Insulators
<i>Xue Zhihang</i>	A2_5_ID211	The Mechanical Model of Overhead Transmission Lines and a Novel Iteration Algorithm for the Icing Monitoring via Fiber Optic Sensors
<i>Y. Thibault</i>	P2_23_ID187	On the Role of the Surface Dielectric Constant for Icephobic Coating Applications
<i>Y. Yamagishi</i>	P1_10_ID76	Study of Snowdrift around Buildings of Antarctica Using Numerical Analysis
<i>Yan Bo</i>	P2_18_ID152	Dynamic Responses of UHV Transmission Tower-line System after Ice-shedding in Heavy Ice Zones

<i>Yan Bo</i>	B5_2_ID62	Numerical Simulation of De-icing Process of Iced Multi-span Transmission Lines under Shock Load
<i>Yan Li</i>	P2_06_ID79	The Anti-icy Effect on Insulators Based on the Hydrophobicity and Heating Effect of Semiconductive RTV Coating
<i>Yan Ruidong</i>	Z_16_ID212	On-Line Monitoring of Icing Thickness on Transmission Line with Interval Estimation Method based on Tension Backstepping and Image Detecting
<i>Yang Jialun</i>	C4_4_ID143	Current State and Prospect of Study on De-icing of Power Transmission Lines Using Mechanical Devices
<i>Yang Jianlan</i>	P2_36_ID223	Testing Method on DC Artificially Iced Disk-shaped and Suspension Insulators
<i>Yang Jing,</i>	P1_08_ID93	In-cloud Icing Simulation with GEM-LAM Model
<i>Yang Li</i>	A4_2_ID114	Observational Studies of Hunan Transmission Line Icing at Microtopography and Micrometeorological
<i>Yang Li</i>	P1_13_ID110	Analyze on the Ice-covering Recurrence Interval of Power Grid Based on PSO Optimization
<i>Yang Li</i>	A5_2_ID112	Application of Analytic Hierarchy Process in Atmospheric Icing Climate Forecast of Power Network Based on Multiplex Climate Factors
<i>Yang Li</i>	A5_4_ID115	Research on Ice-covering Alarming Model for Transmission-line Based on the Multivariate Regression of Meteorological Factors
<i>Yang Li</i>	A6_2_ID113	Short-term Forecast System of Ice-covering for Power Grid
<i>Yang Qing</i>	P2_02_ID49	The Electric Field and Potential Distribution of Composite Insulator with Series Connection of Glass Insulator
<i>Yang Qing</i>	Z_17_ID215	Study on Simulation Experiment on Impulse Characteristics of Grounding Devices in the Freeze-thaw Soil
<i>Yang Rongjie</i>	P1_05_ID58	Study on the Characteristics of Aerosol for Glaze Icing Manual Intervention
<i>Yang Rongjie</i>	P1_12_ID81	An Experimental Device Used to Measure Ice Nucleation Property of Pyrotechnics Formula
<i>Yang Zhangang</i>	A3_2_ID51	Research on the Calculation of Deviation Angle of Icicle Build-up on Insulators and Its Influential Factor
<i>Yao Senjing</i>	C6_4_ID136	Analysis of Thermal Distribution along Insulator Strings with Semiconducting RTV
<i>Yao Tao</i>	C2_4_ID119	Icing Flashover Characteristics of EHV Transmission Line Insulators under Sever Icing
<i>Yao Tao</i>	C4_2_ID118	Effect of Composite Assistant Shed on the Flashover Performance of Ice-covered Station Post Insulators
<i>Yao Tao</i>	Z_10_ID134	Study on Light Icing Performance of Composite Insulators at AC Voltage
<i>Yi Wenyuan</i>	P2_18_ID152	Dynamic Responses of UHV Transmission Tower-line System after Ice-shedding in Heavy Ice Zones
<i>Yi Xianjie</i>	C6_5_ID153	Development and Investigation of a New Kind of Anti-icing Coating with Ice-melting Performance
<i>Yin Fanghui</i>	P1_38_ID17	The Calculation of Electric Field along the Surface of 1100kV Station Post Insulator under Impulse Voltage Based on ANSYS
<i>Yin Fanghui</i>	P2_37_ID18	Electric Field Calculation of 330kV Ice-covered Composite Insulators Using the Finite Element Method
<i>Yoichi Yamagishi</i>	A1_1_ID83	Incorrect Wind Measurement Due to Icing on Heated Ultrasonic Anemometer
<i>Yu Wei</i>	P1_08_ID93	In-cloud Icing Simulation with GEM-LAM Model
<i>Yu Xinzhe</i>	P2_13_ID128	Study on Variation of Melting Water Conductivity during Melting Period
<i>Yuan Tao</i>	P2_02_ID49	The Electric Field and Potential Distribution of Composite Insulator with Series Connection of Glass Insulator
<i>Yuan Tao</i>	Z_17_ID215	Study on Simulation Experiment on Impulse Characteristics of Grounding Devices in the

		Freeze-thaw Soil
Yuan Yao	A6_3_ID129	The Ice-covered Insulation Configuration of 1000kV AC Transmission Line
Yuan Yichao	P2_15_ID146	Experimental Researches on Prevention of Ice Coating Galloping Using Small-scaled Simulated Transmission Line
Yuji Asano	P2_07_ID91	New Results on the Anti-icing Performance of LC-Spiral Rods
Yuming Zhao	P2_06_ID79	The Anti-icy Effect on Insulators Based on the Hydrophobicity and Heating Effect of Semiconductive RTV Coating
Z. Ghalmi	P2_23_ID187	On the Role of the Surface Dielectric Constant for Icephobic Coating Applications
Zahira Ghalmi	B4_3_ID177	Experimental Study of the Influence of the Type of Material, Roughness and Temperature on Ice Adhesion
Zeng Xiangjun	A5_2_ID112	Application of Analytic Hierarchy Process in Atmospheric Icing Climate Forecast of Power Network Based on Multiplex Climate Factors
Zha Qinhua	P1_35_ID 228	Survey and Analysis of Flashover Accidents on Icing Insulators in EHV Transmission Lines in China
Zhang Changhua	A2_5_ID211	The Mechanical Model of Overhead Transmission Lines and a Novel Iteration Algorithm for the Icing Monitoring via Fiber Optic Sensors
Zhang Dalin	B4_5_ID207	Numerical Simulation of De-icing and Ice Shedding on Multilayered Structures
Zhang Haijun	P1_29_ID200	EHV Transmission Line Icing Analysis and Countermeasures Research
Zhang Haoming	P1_05_ID58	Study on the Characteristics of Aerosol for Glaze Icing Manual Intervention
Zhang Haoming	P1_12_ID81	An Experimental Device Used to Measure Ice Nucleation Property of Pyrotechnics Formula
Zhang Hongxian	A1_4_ID139	Transmission Lines Malfunction Imbalance Tension Trend Monitoring and Tilt Monitoring Device of Research
Zhang Hongxian	A2_6_ID131	Integrated Anti-fog Monitoring Methods of Power Transmission Line Ice Covering
Zhang Hongxian	C3_4_ID132	Research and Application of New AC/DC De-icing Devices in Hunan Power Grid
Zhang Hongxian	A4_2_ID114	Observational Studies of Hunan Transmission Line Icing at Microtopography and Micrometeorological
Zhang Hongxian	P1_13_ID110	Analyze on the Ice-covering Recurrence Interval of Power Grid Based on PSO Optimization
Zhang Hongxian	P2_12_ID126	Utility Hybrid Overhead Ground Wire for Ice Melting with High Voltage and Large Current
Zhang Hongxian	A5_2_ID112	Application of Analytic Hierarchy Process in Atmospheric Icing Climate Forecast of Power Network Based on Multiplex Climate Factors
Zhang Hongxian	A5_4_ID115	Research on Ice-covering Alarming Model for Transmission-line Based on the Multivariate Regression of Meteorological Factors
Zhang Hongxian	A6_2_ID113	Short-term Forecast System of Ice-covering for Power Grid
Zhang Hongxian	A6_4_ID135	Analysis of Hunan Power Grid Ice Disaster in 2008 and Related Series Anti-icing Technology Research
Zhang Hongxian	A6_5_ID138	Analysis and Simulated Research of Tower Collapse by Ice Disaster of Hunan In 2008
Zhang Jifei	P1_29_ID200	EHV Transmission Line Icing Analysis and Countermeasures Research
Zhang Jiwu	C3_2_ID5	Comparison between AC and DC Short-circuit-current Ice-melting Methods
Zhang Ran	A2_5_ID211	The Mechanical Model of Overhead Transmission Lines and a Novel Iteration Algorithm for the Icing Monitoring via Fiber Optic Sensors
Zhang Yan	C5_4_ID108	The Preparation of Fluorine-silicon Resin and the Research on its Anti-icing Properties
Zhang Yufu	C6_2_ID102	The Characteristic and Chemical Analysis of Ice Coating on Transmission and Transformer Equipments in Hunan Power Grid Caused by Icing Disaster in 2008
Zhang Yun	P2_14_ID133	Research of De-icing Method and Device Based on 12-Pulse Rectification for 500kV Transmission Lines

Zhang Zhanen	P1_06_ID64	Experimental Study on the Convection Heat Transfer of Air across Wires in the Icing Environmental Conditions
Zhang Zhanen	P1_07_ID66	Experimental Study on the Collection Coefficient of Power Line Icing
Zhang Zhijin	A1_2_ID4	Study on Diameter Correction Coefficient of the Icing Thickness of the Conductors
Zhang Zhijin	C1_4_ID12	Comparison of DC Icing Flashover Performances for Pre-polluted Short Samples of Composite Insulators with Different Configuration in High Altitude Area
Zhang Zhijin	C3_1_ID67	The Method and Test of De-icing on Four Bundled-conductors by Leading Running Current into Various Sub-conductor Combinations
Zhang Zhijin	C4_5_ID213	The Method and Implementation of Icing and De-icing at Xuefeng Mountain Natural Icing Station
Zhang Zhijin	P2_27_ID197	Simulation and Experimental Study on Maximum Temperature during Ice-melting of Ice-covered Conductors
Zhang Zhijin	P2_37_ID18	Electric Field Calculation of 330kV Ice-covered Composite Insulators Using the Finite Element Method
Zhang Zhijin	P2_36_ID223	Testing Method on DC Artificially Iced Disk-shaped and Suspension Insulators
Zhang Zhijin	P2_34_ID217	Research on the Frequent and Phase Characteristics of Leakage Current of Iced Insulators
Zhang Zhijin	B6_2_ID68	Experiments and Analysis of Crystallization Effect during the Freezing Water Transition from Liquid to Solid Phase in Natural Environment
Zhang Zhijin	P2_03_ID52	Validation of the Equivalent Effect of Pollution Simulation Methods on DC Icing Flashover Voltage of Insulators
Zhao Chun	C4_1_ID116	A Novel Composite Insulator with Lightning Protection and Icing Flashover Prevention
Zhao Chun	P2_12_ID126	Utility Hybrid Overhead Ground Wire for Ice Melting with High Voltage and Large Current
Zhao Shihua	C3_2_ID5	Comparison between AC and DC Short-circuit-current Ice-melting Methods
Zhao Xiaomeng	P1_11_ID77	Variations of Meteorological Factors Concerning Ice and Comprehensive Assessment in Southwest
Zhao Xuesong	P1_29_ID200	EHV Transmission Line Icing Analysis and Countermeasures Research
Zhao Xuezheng	C3_5_ID147	Modeling and On-site Experiments of Shunt Capacitor Compensation Method for Deicing of 66KV Power Line
Zhao Yuming	C5_2_ID99	Switching Effect Optimization of Insulator's Anti-ice Semi-conductive RTV Coating
Zhao Yuqian	C5_1_ID65	Influence of Hydrophobic Coating on Ice Accretion on Aluminum Conductor
Zhao Yushun	P2_17_ID151	Inhibiting Ice Accumulation on Conductors Using Sleeves Treated with Super-hydrophobic Surfaces
Zhao Yushun	C5_5_ID97	Analyze to Surface Leakage Currents on Super-hydrophobic Insulators under Icing Condition
Zheng Jiangang	P1_29_ID200	EHV Transmission Line Icing Analysis and Countermeasures Research
Zheng Zhe	C4_1_ID116	A Novel Composite Insulator with Lightning Protection and Icing Flashover Prevention
Zhenting Sun	P2_06_ID79	The Anti-icy Effect on Insulators Based on the Hydrophobicity and Heating Effect of Semiconductive RTV Coating
Zhidong Jia	P2_06_ID79	The Anti-icy Effect on Insulators Based on the Hydrophobicity and Heating Effect of Semiconductive RTV Coating
Zhou Fangrong	P2_04_ID53	Influence of Test Methods on DC Flashover Performance of Ice-covered Composite Insulators
Zhou Honggang	P2_33_ID214	Study on Dynamic Properties of Long-span Power Transmission Tower-cable System
Zhou Hongwei	A2_2_ID73	A New Method for Measuring Vertical Ice Adhesion Strength
Zhou Jun	C1_3_ID101	Icing Flashover Characteristics of Insulators Strings with Different Alternating Sheds
Zhou Jun	P2_13_ID128	Study on Variation of Melting Water Conductivity during Melting Period

<i>Zhou Shu</i>	P1_02_ID30	Calculation Method of Maximum Conductor Temperature and Maximum Allowable Current in Transmission Line Ice-melting With Short-circuit
<i>Zhou Tianchun</i>	P2_36_ID223	Testing Method on DC Artificially Iced Disk-shaped and Suspension Insulators
<i>Zhou Yazi</i>	C3_2_ID5	Comparison between AC and DC Short-circuit-current Ice-melting Methods
<i>Zhou You</i>	C5_1_ID65	Influence of Hydrophobic Coating on Ice Accretion on Aluminum Conductor
<i>Zhu Changcheng</i>	P1_31_ID195	Anti-ice Shedding Technology of Transmission Line
<i>Zhu Changcheng</i>	P2_25_ID191	Principle and Technical Measure for the Anti-icing of Transmission Line
<i>Zhu Changcheng</i>	P1_25_ID192	Pre-failure Diagnosis of Substation Electrical Equipment under Icing Condition and Preventive Techniques
<i>Zhu Jianxin</i>	B6_5_ID169	Analysis of Mechanism of Galloping of Iced Conductor
<i>Zhu Kuanjun</i>	C4_4_ID143	Current State and Prospect of Study on De-icing of Power Transmission Lines Using Mechanical Devices
<i>Zhu Kunjun</i>	B3_4_ID150	A Correction Method for CRREL Model to Estimate Ice-covered Value on Conductors
<i>Zhu Tao</i>	P2_26_ID196	Thinking and Some Suggestions about Ice Coating Disaster in Power Networks