

# ***ICG Annual Meeting 2023 (Hangzhou, Zhejiang, China)***

2023/11/13

## ***Opening Ceremony***

13 (Mon) Grand Ballroom A+B AM

Chair: Jianrong Qiu

Address 8:30-8:40 Dr. Ruiping Gao, President of the Chinese Ceramic Society

Opening address

Address 8:40-8:45 Prof. Reinhard Conradt, President of ICG

Address

Address 8:45-8:50 Leader of Zhejiang University

Welcome speech

ICG Award Ceremony and group photo 8:50-9:05 Chair: Gaorong Han

## ***Plenary Lectures 1***

Chair: Yuanzheng Yue

Plenary 9:05-9:45 P. Russel

The world's longest holes: photonic crystal fibers

Plenary 9:45-10:25 S. Peng

The future of flexible glass: display, energy, and more unknown possibilities

Coffee Break 10:25-10:40

## ***Plenary Lectures 2***

Chair: Xianghua Zhang

Plenary 10:40-11:20 E. Heike  
soft glass? It depends

What is the best glass material for optical fibres:silica or

Plenary 11:20-12:00 S. Horike

Synthesis and properties of 1D, 2D and 3D  
network-forming MOF glasses

## ***Gottardi Award-winning Lecture***

Chair: Lili Hu

12:00-12:25 Atsushi Sakuda

Research on Next Generation Battery Materials Based  
on Glass Science

# ICG Annual Meeting 2023 (Hangzhou, Zhejiang, China)

## ICG Annual Meeting 2023

<b>13 (Mon) Narcissus Room PM</b>		
<b>Session A: Advanced Glass-Related Equipment</b>		
Chair: Wei Ning		
<b>Keynote</b> 13:30-14:00	Stuart Hakes	Advanced Melting Technology In Carbon Dioxide Reduction With Large All-Electric Furnaces and Superboosting
<b>Keynote</b> 14:00-14:30	Hong Li	Kinetics of E-Glass Batch-to-Melt Conversion: Effects of Natural Silicates and Detail FTIR Spectroscopic Investigation
Chair: Shiming Liu		
<b>Invited</b> 14:30-14:50	Xiaoniu Chen	Analysis and Prospect of Energy Saving and Carbon Reduction Potential of Glass Kiln
<b>Invited</b> 14:50-15:10	Aota. Hiroki	Cullet Preheating Device for Application of The Unused Heat
<b>Invited</b> 15:10-15:30	Juping Zhao	Application of Low Pressure Oxy-fuel Combustion Technology In Glass Furnace
<b>15:30-15:45 (Coffee break)</b>		
Chair: Xiaoniu Chen		
<b>Invited</b> 15:45-16:05	Shimin Liu	The Influence of Glass Liquid Flow Homogenization Quality on The Performance of Glass Products
<b>Invited</b> 16:05-16:25	Wei Ning	Glass Ceramics With Continuous Innovation and Breakthroughs In The High-Quality Development of The Glass Industry
Chair: Qingriang Li		
<b>Invited</b> 16:25-16:45	Xinwei Wang	Anderson Thermal Solutions
<b>Oral</b> 16:45-17:00	Taicheng Fu	Research on Automation Technology for Sustainable Development in Flat Glass Factory
<b>Oral</b> 17:00-17:15	Hongmei Wang	Research and Development of Fiber Reinforced Zero Expansion Silicon Brick
Chair: Lida Luo		
<b>Oral</b> 17:15-17:30	Qingxiang Li	Stability Study of Cured Glass From Arsenic-Containing Wastes In Non-Ferrous Metallurgy

<b>Oral</b> 17:30-17:45	Jin Liu	The Elastic Modulus of High Performance Glass Fiber was Evaluated by sound velocity method and nano-indentation method State
<b>Oral</b> 17:45-18:00	Xueying Chen	Preparation and Properties of Enamel Coating Doped With Ceramic Fiber

<b>13 (Mon) Plum Blossom Room PM</b>		
<b>Session B: Advanced Testing and Characterization Session</b>		
Chair: Xiaogen Liu		
<b>Keynote</b> 13:30-14:00	Tetsuji Yano	In-Flight Melting Using Hydrogen/Oxygen Combustion Burner Flame for The Research of New Glass Forming System
<b>Keynote</b> 14:00-14:30	Madoka Ono	Advances in Characterization of Glass Structure and its Impact on Property Development
Chair: Lianjun Wang		
<b>Invited</b> 14:30-14:55	Jian Yang	Morphological and Mechanical Characterization on Post-Fracture Laminated Tempered Glass
<b>Invited</b> 14:55-15:20	Suwen Chen	Microscopic Characteristics of Architectural Glass and Long-Term Strength Prediction
<b>Oral</b> 15:20-15:35	Dong Wu	Mechanical Properties of Glasses at The Micro Scale: a Case Study of Porous Glasses by Nanoindentation
<b>15:35-15:45 (Coffee break)</b>		
Chair: Jian Yang		
<b>Invited</b> 15:45-16:05	Lianjun Wang	Nanoindentation Induced Deformation and Structural Evolution of Silicate Glass
<b>Invited</b> 16:05-16:30	Detian Wan	Testing Technology of Mechanical Properties and Reliability Evaluation for Ultra-Thin Glass
<b>Oral</b> 16:30-16:45	Hua Cai	Nanoscale Morphological Transformation and Electrical Conductivity of Silicate Glass Microchannel Plate
Chair: Detian Wang		
<b>Invited</b> 16:45-17:10	Jianjun Yang	Performance Optimization for Window Glass Used in Buildings
<b>Oral</b> 17:10-17:25	Yiran Li	Theoretical Investigation About Thermal Conductivity and Thermal Expansion Coefficients of Rare Earth Monosilicates
<b>Oral</b> 17:25-17:40	Shaoshan Wei	Study on the Bending Performance of Flexible Ultra-Thin Glass Based on the Theory of Large Deformation Elasticity
<b>Oral</b> 17:40-17:55	Kemian Qin	Radiation-Induced Alterations in Zirconium-Doped Borosilicate Glasses: Implications for Long-Term Disposal of High-Level Radioactive Waste

<b>13 (Mon) Grand Ballroom A PM</b>		
<b>Session C: Glass Structure and Glass Transition</b>		
Chair: Masahiro Shimizu		
<b>Keynote</b> 13:30-14:00	Yuanzheng Yue	Glass Transition: Insights from Calorimetric and Structural Analysis
<b>Invited</b> 14:00-14:25	Limin Wang	Correlations Between Thermodynamics and Kinetics in Glass Forming Materials
Chair: Jinjun Ren		
<b>Invited</b> 14:25-14:50	Masahiro Shimizu	Atomistic Origin of Volume Relaxation Below T <sub>g</sub> In Soda-Lime Silicate Glass: Molecular Dynamics and Experimental Approach
<b>Oral</b> 14:50-15:05	Bo Zhang	Ultrastable Metallic Glass by Room Temperature Aging
<b>Oral</b> 15:05-15:20	Zhitao Shan	The Mixed Modifier Effect in Mechanical Properties for Borosilicate Glasses
<b>Oral</b> 15:20-15:35	Zhencai Li	Double Glass Transitions in Phase-Separated Glasses Containing Perovskite Nanocrystals
<b>15:35-15:45 (Coffee break)</b>		
Chair: Limin Wang		
<b>Invited</b> 15:45-16:10	Lina Hu	Fragile-to-Strong Transition in Metallic Glass Forming Liquids
<b>Invited</b> 16:10-16:35	Li Jianqiang	Novel Glasses Lacking Network Former Elaborated by Containerless Solidification Process
<b>Oral</b> 16:35-16:50	Shuai Ren	Absence of Ultrasonic-Vibration-Induced Plasticity in Metallic Glacial Glasses
Chair: Lina Hu		
<b>Invited</b> 16:50-17:15	Junqiang Wang	Detecting the Relaxation Units (Relaxun) in Glasses
<b>Oral</b> 17:15-17:30	Yoshinari Kato	Structural Investigation of Sodium Borosilicate Glasses Densified at Ambient Temperature by Solid-State NMR and Raman Scattering
<b>Oral</b> 17:30-17:45	Gangjie Zhou	Multilayered Chalcogenide Glass with Gradient Index for Reduced SWaP IR Optical System

<b>13 (Mon) Osmanthus Room PM</b>		
<b>Session D: Advanced Functional Glass and Application</b>		
Chair: Morten M. Smedskjaer		
<b>Keynote</b> 13:30-14:00	Yoshida Satoshi	Dynamic Indentation Hardness of Glass by Using a Blunt Trigonal Pyramid Indenter
<b>Keynote</b> 14:00-14:30	Kiyoharu Tadanaga	Preparation of Sulfide-Based Li-ion Conductive Solid Electrolytes Using Solution Processes
Chair: Yoshida Satoshi		
<b>Invited</b> 14:30-14:55	Morten M. Smedskjaer	Dependence of Glass Mechanical Properties on Structure at Varying Length Scales
<b>Invited</b> 14:55-15:20	Johann Troles	Chalcogenide Microstructured Optical Fibers: Fabrication and Applications
<b>Oral</b> 15:20-15:35	Sen Qian	The R&D of the high light yield and high density glass scintillator
<b>15:35-15:45 (Coffee break)</b>		
Chair: Johann Troles		
<b>Invited</b> 15:45-16:10	Xin Jiang	Recent Advances in Microstructured Optical Fibres
<b>Invited</b> 16:10-16:35	Zhenggang Lian	From Doped Quartz Glass to Special Optical Fiber Based Applications
<b>Oral</b> 16:35-16:50	Jing Zeng	Investigation of Solar heat gain coefficient and the application of CdTe Power glass
Chair: Xin Jiang		
<b>Invited</b> 16:50-17:15	Seungho Kim	Foldable Ultra-Thin Glass for Now and Future
<b>Oral</b> 17:15-17:30	Gao Tang	Study on the Scintillation Properties of Ce <sup>3+</sup> -Doped Aluminum-Silicate Glasses
<b>Oral</b> 17:30-17:45	Ao Li	Application of Glass Powder Surface Modification Technology in Electronic Pastes
<b>Oral</b> 17:45-18:00	Yonglong Liu	Luminescence properties of Er-Yb co-doped phosphate glass

<b>13 (Mon) Lotus Room PM</b>		
<b>Session E: Glass Crystallization and Glass Ceramics</b>		
Chair: Koichi Kajihara		
<b>Keynote</b> 13:30-14:00	Xianghua Zhang	Crystallization in Chalcogenide Glasses
<b>Keynote</b> 14:00-14:30	Mathieu Allix	New out-of-Equilibrium Oxides Elaborated by Crystallization From Glass/Melt
Chair: Mathieu Allix		
<b>Invited</b> 14:30-14:55	Koichi Kajihara	Synthesis and Characterization of Lithium ion-Conducting Boracite and Sodalite Glass-Ceramics
<b>Invited</b> 14:55-15:20	Tetsuya Murata	In-Situ Observation on Heterogeneous Crystallization
<b>Oral</b> 15:20-15:35	Yunlan Guo	Effect of ZrO <sub>2</sub> Crystallization on ion-Exchange Properties in Aluminosilicate Glass
<b>15:35-15:45 (Coffee break)</b>		
Chair: Tetsuya Murata		
<b>Oral</b> 15:45-16:00	Peter Grouleff Jensen	New Insights into the High Temperature Stability of Stone Wool Fibres
<b>Oral</b> 16:00-16:15	Bo Zhang	Ultrafast Laser-Induced Self-Organized Nanostructuring for all-Inorganic Photonic Devices
<b>Oral</b> 16:15-16:30	Longfei Zhang	Transparent Fluoride Glass-Ceramics with Phase-Selective Crystallization for Middle IR Photonics

<b>13 (Mon) Magnolia Room PM</b>		
<b>Session F: MOF glass, Perovskite glass, and other new glasses</b>		
Chair: Mohamed Ali		
<b>Invited</b> 13:30-13:55	Minghua Zeng	Systematic Designing, Sequential Perturbation, Multi-Phase Evolution and Properties Tuning of MOF Glasses
<b>Invited</b> 13:55-14:20	Mohamed Ali	Vitrification of Metal Coordination Compounds and Their Applications
Chair: Yuanzheng Yue		
<b>Invited</b> 14:20-14:45	Wenqian Chen	Synthesis and Applications of Ordered to Disordered MOFs
<b>Invited</b> 14:45-15:10	Chengwei Gao	MOF Glass Preparation and Their Applications In Li-Ion Batteries
<b>Oral</b> 15:10-15:25	Rasmus Christensen	Medium-Range Order Structure Controls Thermal Stability of Pores in Zeolitic Imidazolate Frameworks
<b>15:25-15:40 (Coffee break)</b>		
Chair: Shurong Shi		
<b>Invited</b> 15:40-16:05	Yanfei Zhang	Metal-organic Framework Glass Anodes for Li-ion Batteries
<b>Oral</b> 16:05-16:20	Tao Du	Understanding the Structure and Mechanical Properties of ZIF Glasses by a Machine Learning Force Field
Chair: Chengwei Gao		
<b>Oral</b> 16:20-16:35	Shurong Shi	In situ detection of glass phase transition of ZIF-62
<b>Oral</b> 16:35-16:50	Zijuan Du	Effect of Zn/Co node ratio on the glass transition in the high-density amorphous ZIF-4
<b>Oral</b> 16:50-17:05	Yingbo Zhao	Synthesis of Glassy Metal-organic Frameworks Through Coordination Perturbation and Their Application for Solid-state Electrolytes



<b>13 (Mon) Grand Ballroom B PM</b>		
<b>Session G: Modeling, simulation and artificial intelligence of glasses</b>		
Topic 1: MD simulations of glass structures and behaviors I Chair: Walter Kob and Jincheng Du		
<b>Keynote</b> 13:30-14:00	Alastair N. Cormack	Atomic Scale Melting Mechanisms in Silicate Glasses
<b>Invited</b> 14:00-14:25	Liping Huang	Molecular Dynamics Study on the Viscosity of Glass-forming Systems
<b>Invited</b> 14:25-14:50	Huidan Zeng	Molecular Dynamics Simulations Study on Structure and Properties of Aluminosilicate Glasses
<b>Invited</b> 14:50-15:15	Haishen Ren	Molecular Dynamics Simulations to Structure-Properties Relationship of MgO–BaO–CaO–Al <sub>2</sub> O <sub>3</sub> –B <sub>2</sub> O <sub>3</sub> –SiO <sub>2</sub> Glass-Ceramic for Intermediate Temperature Solid Oxide Fuel Cell
<b>Oral</b> 15:15-15:30	Linfeng Ding	Nanoindentation-Induced Evolution of Atomic-Level Properties in Silicate Glass: Insights From Molecular Dynamics Simulations
<b>15:30-15:45 (Coffee break)</b>		
Topic 2: Materials Genome and QSPR analysis of Glasses Chair: Huidan Zeng and Xusheng Qiao		
<b>Invited</b> 15:45-16:10	Pengfei Guan	Large-Scale Simulation of Multi-Component Metallic Glasses
<b>Invited</b> 16:10-16:35	Liyang Zhang	The Application of Statistical Glass Structure Gene Modeling in Laser Glass and HLW Glass
<b>Invited</b> 16:35-17:00	Lu Deng	Composition-Structure-Property Relationship of Phosphate Glasses: a Combination of Experiment, Simulation, and QSPR Analysis
<b>Oral</b> 17:00-17:15	Zeshi Guo	Study on the Influence of Chemical Composition and Fiber-Forming Process on the Atomic Structure of Basalt Fiber: an Experiment and Molecular Dynamics Study
<b>Oral</b> 17:15-17:30	Ying Tian	Simulation Prediction of Thermal Properties and Spectral Characteristics of Er <sup>3+</sup> Doped Fluorotellurite Glasses

<b>14 (Tue) Narcissus Room AM</b>		
<b>Session A: Advanced Glass-Related Equipment</b>		
Chair: Stuart Hakes		
<b>Invited</b> 8:30-9:00	D. Messina	Low CO <sub>2</sub> emission lining for furnace melter crowns
<b>Invited</b> 9:00-9:30	M. Gaubil	How New Fused Cast Refractory Solutions Can Extend Glass Furnace Throat Lifetime
Chair: Qingwen Shen		
<b>Invited</b> 9:30-9:50	Yuan Yao	The Recycling of Broken Glass Helps To Achieve The Two-Carbon Goal
<b>Invited</b> 9:50-10:10	Changlin Zheng	Anhydrous Borate for Energy and CO <sub>2</sub> Reduction
<b>Invited</b> 10:10-10:30	Qingwen Shen	Development of Hot State Maintenance Technology of Glass Kiln In China
<b>10:30-10:40 (Coffee break)</b>		
Chair: M. Gaubil / Changlin Zheng		
<b>Invited</b> 10:40-11:00	Qingdong Zhao	Technical Analysis of Environmental Protection and Energy Saving, High Quality and High Efficiency In Oxy-Fuel Combustion of Glass Furnace
<b>Invited</b> 11:00-11:20	Jiani Xuan	“MoZrO <sub>2</sub> ” – A New Material for Glass Melting Electrodes
Chair: Jiani Xuan		
<b>Oral</b> 11:20-11:30	Minglu Shao	Effect of Sintering on Mechanical Properties of Flexible Glass Coating
<b>Oral</b> 11:30-11:40	Huimin Han	Study of Volatilization of Cured Glass Containing Arsenic Waste at High Temperature Stage
<b>Oral</b> 11:40-11:50	Qi Su	Study on The Properties Of Cao-Mgo-B <sub>2</sub> O <sub>3</sub> -Sio <sub>2</sub> Glass Used for LTCC Substrate
<b>Oral</b> 11:50-12:00	Wangming Shi	Effects Of Reducing Atmosphere and Iron Content on UV Transmission Property of Alkali-Silicate And Alkali-Borosilicate Glasses

<b>14 (Tue) Plum Blossom Room AM Session H: Thin Film and Coating</b>		
Chair: Xiujian Zhao		
8:15-8:30		Opening Ceremony of Annual Meeting of TFC Sub-committee, CCS
Chair: Jingong Pan		
Keynote 8:30-9:00	Mitsuhiro Kawazu	Functional Coatings on Glass with Sol-gel Technology
Invited 9:00-9:25	Tao Wang	Organic Thin Film Solar Cells: Pathways toward High Performance and Semitransparency
Chair: Tao Wang		
Invited 9:25-9:50	Jingong Pan	Low Carbon Aesthetic New Material under the Carbon Peaking and Carbon Neutrality Goals - CdTe
Oral 9:50-10:05	Jianfeng Lu	Printing Technology for Efficient and Stable Perovskite Solar Cells
Oral 10:05-10:20	Wei Zhang	Subwavelength Photonic Devices Based on Chalcogenide Glass
Oral 10:20-10:35	Jingwei Zhu	Hydrolysis and Condensation of Monobutyltin Chloride: Reaction Process Analysis with DFT
<b>10:35-10:45 (Coffee break)</b>		
Chair: Qinghong Zhang		
Invited 10:45-11:10	Haiguang Zhao	Carbon Dots Integrated Luminescent Solar Concentrators for Building Integrated Photovoltaics
Oral 11:10-11:25	Jiurong Li	Synthesis of Ultra-bright Emission Carbon Dots for High-performance Luminescent Solar Concentrators
Chair: Haiguang Zhao		
Invited 11:25-11:50	Qinghong Zhang	Room Temperature Preparation and Lead Leakage Suppression of Perovskite Thin Film Solar Cells
Oral 11:50-12:05	Chengyv Hu	Phosphorylation Constructs Ion Channels to Improved Reactivity and Electrochromic Performance of Nickel Oxide

<b>14 (Tue) Grand Ballroom A AM</b>		
<b>Session C: Glass Structure and Glass Transition</b>		
Chair: Atsunobu Masuno		
<b>Keynote</b> 8:30-9:00	Hiroyuki Inoue	Atomic arrangement of glasses, its low glass-forming ability and unique physical properties of $\text{LaO}_{3/2}\text{-TiO}_2\text{-NbO}_{5/2}\text{-WO}_3$ glasses
<b>Oral</b> 9:00-9:15	Pengfei Wang	Structural insight of fluorophosphate glasses through F/O ratio: case study of Raman and NMR spectra
<b>Oral</b> 9:15-9:30	Minghui Sun	Effect of Rubidium on the Ionic and Structural Properties of Cerium Heavily Doped Metaphosphate Glasses
Chair: Hiroyuki Inoue		
<b>Invited</b> 9:30-9:55	Jinjun Ren	Exploring the Crystallization Mechanism of Fluorine Oxygen Glasses via Advanced Solid-State Nuclear Magnetic Resonance Spectroscopy
<b>Oral</b> 9:55-10:10	Xuan Ge	Structural Fingerprint of Crystallization in Mixed-Alkali Bioactive Glasses
<b>Oral</b> 10:10-10:25	Kyeong Dae PARK	Structural Study of Commercial Sodium Alumino-silicate Glasses via Molecular Dynamics and Solid-state NMR
<b>10:25-10:40 (Coffee break)</b>		
Chair: Jinjun Ren		
<b>Invited</b> 10:40-11:05	Masuno Atsunobu	Functionality and structure of levitation-synthesized oxide glasses
<b>Invited</b> 11:05-11:30	Rikiya Kado	Relationship between configurational entropy and liquidus viscosity of glass-forming melts
<b>Oral</b> 11:30-11:45	Tatsuya Mori	Investigation of boson peak in glasses by coherent potential approximation analysis
<b>Oral</b> 11:45-12:00	Ruoyu Zheng	Effect of modified cations on the spectra of Er-ion-doped silicate glasses
<b>Oral</b> 12:00-12:15	Yanqing Fu	Ultraflexible and High-sensitive Temperature-Strain Dual-Sensor Based on Chalcogenide Glass-PTFE Film for Human-Machine Interaction

<b>14 (Tue) Osmanthus Room AM</b>		
<b>Session D: Advanced Functional Glass and Application</b>		
Chair: Ang Qiao		
<b>Keynote</b> 8:30-9:00	Changgui Lin	Chalcogenide Glasses: Novel Development and Applications
<b>Invited</b> 9:00-9:25	Lan Li	Mechanically flexible photonics for on-chip sensing based on FSR-free cavities
Chair: Changgui Lin		
<b>Invited</b> 9:25-9:50	Ang Qiao	Medium-range structure in functional glasses
<b>Invited</b> 9:50-10:15	Bin Zhang	Integrated chalcogenide glass photonic devices for nonlinear photonics
<b>Invited</b> 10:15-10:40	Pengfei Liu	Progress and Challenges in Surface Enhancement Process on Oxide Glass
<b>10:40-10:50 (Coffee break)</b>		
Chair: Shiliang Kang		
<b>Invited</b> 10:50-11:15	Laukuen Yao	O-, E- and S-band bismuth-doped fiber amplifier and laser
<b>Oral</b> 11:15-11:30	Yiguang Jiang	Development and Performance Study of Fluoride Glass Fiber
Chair: Laukuen Yao		
<b>Oral</b> 11:30-11:45	Peng Jiao	Design of Optical Fiber Path for Tapered Optical Fiber Array and Improvement of Light Transmission Uniformity
<b>Oral</b> 11:45-12:00	Kangzhen Tian	Design, Fabrication and Properties of Mid-Infrared Fiber Combiners
<b>Oral</b> 12:00-12:15	Mingjun Zhao	Self-luminescence of BaF <sub>2</sub> -B <sub>2</sub> O <sub>3</sub> glass prepared by reduction

<b>14 (Tue) Lotus Room AM</b>		
<b>Session E: Glass Crystallization and Glass Ceramics</b>		
Chair: Chao Liu		
<b>Invited</b> 8:30-8:55	Taehoon Lee	Intimate Correlation Between Structure, Chemistry, and Crystallization in Glasses
<b>Invited</b> 8:55-9:20	Olga Dymshits	Structure and Spectral Properties of Fe:ZnAl <sub>2</sub> O <sub>4</sub> , Fe:MgAl <sub>2</sub> O <sub>4</sub> , and Fe:γ-Al <sub>2</sub> O <sub>3</sub> Transparent Glass-Ceramics
Chair: Taehoon Lee		
<b>Invited</b> 9:20-9:45	Chao Liu	Transforming Sodium Silicate Glasses into Transparent Ceramics
<b>Oral</b> 9:45-10:00	Jiahui Wei	Oxysulfide Glass-Ceramics Containing Alkaline-Earth Sulfide Nanocrystals
<b>Oral</b> 10:00-10:15	Changjian Wang	Preparation and Luminescent Properties Study of High-Concentration Sm <sup>2+</sup> -Doped Fluorosilicate Glass by Al Elemental Reduction Method
<b>Oral</b> 10:15-10:30	Qi Zhang	Layered Array Al <sub>2</sub> O <sub>3</sub> -Luag: Ce Composite Ceramic Phosphors for High-Brightness Display
<b>10:30-10:45 (Coffee break)</b>		
Chair: Olga Dymshits		
<b>Oral</b> 10:45-11:00	Yang Shen	Effect of Phase Separation of a Phosphosilicate Glass on Self-Limited Crystallization and Slow Crack Growth
<b>Oral</b> 11:00-11:15	Yiting Tao	Effect of Thermocompression on Properties of Transparent Glass-Ceramics Containing Quantum Dots

<b>14 (Tue) Magnolia Room AM</b>		
<b>Session F: MOF glass, Perovskite glass, and other new glasses</b>		
Chair: Xuhui Xu		
<b>Keynote</b> 8:30-9:00	Daqin Chen	Perovskite quantum dots glasses for backlit displays
<b>Invited</b> 9:00-9:25	Dezhi Tan	Ultrafast laser direct writing of bandgap-tunable perovskite nanocrystals in glass
Chair: Dezhi Tan		
<b>Invited</b> 9:25-9:50	Xuhui Xu	Optical Properties and Applications of Perovskite Quantum Dot Glass-ceramic
<b>Invited</b> 9:50-10:15	Hang Lin	Stress-induced CsPbBr <sub>3</sub> Nano-crystallization on Glass Surface: Mechanism Study and Application Exploration
<b>Invited</b> 10:15-10:40	Woon Jin Chung	Improved Stability Of Cspbbr <sub>3</sub> Perovskite Embedded Glasses for White LED Color Converter with Wide Color Gamut
<b>10:40-10:55 (Coffee break)</b>		
Chair: Daqin Chen		
<b>Invited</b> 10:55-11:20	Ruilin Zheng	A new insight into the structural evolution of halide perovskite in glasses
<b>Invited</b> 11:20-11:45	Jing Ren	Sunlight excitable Perovskite quantum dots sensitized near-infrared emitting glasses
<b>Oral</b> 11:45-12:00	Zhousu Xu	Preparation and optimization of optical properties of CsPbX <sub>3</sub> perovskite quantum dot glass

<b>14 (Tue) Grand Ballroom B AM</b>		
<b>Session G: Modeling, Simulation and Artificial Intelligence of Glasses</b>		
Topic 3: MD simulations of glass structures and behaviors II Chair: Alastair N. Cormack and Liping Huang		
<b>Keynote</b> 8:30-9:00	Walter Kob	The medium-range order in silicate glass-formers: From standard two-body indicators to many-body correlations
<b>Invited</b> 9:00-9:25	Jincheng Du	Composition effect on ion-exchange strengthening in borosilicate glasses from molecular dynamics simulations and QSPR analysis
<b>Invited</b> 9:25-9:50	Hiroyuki Inoue	Structural simulations of RO-B <sub>2</sub> O <sub>3</sub> (R=Mg, Ca, Sr, and Ba) glasses by the first principle molecular dynamics technique
<b>Invited</b> 9:50-10:15	Xusheng Qiao	Structural Simulation and Spectroscopic Computation of Rare Earth Doped Multi-component Glasses
<b>Oral</b> 10:15-10:30	Yiping Huang	Molecular Dynamics Simulation Study on the Structure of Fluorosilicate Glass
<b>10:30-10:45 (Coffee break)</b>		
Topic 4: First principles and classical simulations of glass properties I Chair: Shingo Urata and Neng Li		
<b>Invited</b> 10:45-11:10	Neng Li	The Atomic Structures and Optical Properties: From Silicate Glass to MOF Glass
<b>Invited</b> 11:10-11:35	Zhen Zhang	Understanding the deformation and fracture of silicate glasses from atomistic simulations
<b>Invited</b> 11:35-12:00	Wenke Li	Carrier Recombination Dynamics of PbS Quantum-Dot-In-Glasses by Time-Dependent Density Functional Theory and Nonadiabatic Molecular Dynamics
<b>Oral</b> 12:00-12:15	Shiqing Xu	Structural response to densification of Na <sub>2</sub> O-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> glasses with different load indentation centers



<b>14 (Tue) Narcissus Room PM</b>		
<b>Session J: Low Carbon Glass and Related Technology</b>		
Chair: Rene Reichel		
<b>Keynote</b> 13:30-14:00	Yibing Cheng	Carbon-Free Ammonia Combustion for High Temperature Industrial Applications
<b>Keynote</b> 14:00-14:30	Alicia Durán	A Roadmap to Travel the Age of Glass
Chair: Peter Borowski		
<b>Keynote</b> 14:30-15:00	Rene Reichel	Advantages of Thin-Film Photovoltaics Glass/Glass Modules for Superior BIPV Applications
<b>Invited</b> 15:00-15:25	Hong Ye	Analysis on Energy Performance of Building Windows and Advanced Energy Efficient Materials
<b>Oral</b> 15:25-15:40	Daniela Messina	Low CO <sub>2</sub> Emission Lining for Furnace Melter Crowns
<b>15:40-15:50 (Coffee break)</b>		
Chair: Bastian Siepchen		
<b>Invited</b> 15:50-16:15	Peter Borowski	Using World-Record Thin-Film Photovoltaics on Rigid Glass for Semi-Transparent Applications
<b>Invited</b> 16:15-16:40	Haruki Niida	Float Glass – Carbon Neutral by 2050
Chair: Haruki Niida		
<b>Invited</b> 16:40-17:05	Bastian Siepchen	High Efficient Cd/Se/Te Solar Cells and application in CNBM's module technology
<b>Oral</b> 17:05-17:20	Yanfei Gao	Capture, Purification and Application of Kiln Carbon Dioxide Flue Gas in Glass Industry
<b>Oral</b> 17:20-17:35	Erik Muijsenberg	Hybrid oxy-gas Furnace With High Percentage of Green Electric Energy and Smart ESIII control,
<b>Oral</b> 17:35-17:50	Guixiang Wang	Application of Energy Saving and Carbon Reduction Technology for Glass Furnace

<b>14 (Tue) Plum Blossom Room PM</b>		
<b>Session H: Thin Film and Coating</b>		
Chair: Yanfeng Gao		
<b>Keynote</b> 13:30-14:00	Yi Long	Progress in Thermochromic Smart Windows
<b>Invited</b> 14:00-14:25	Ping Jin	Intelligent Photothermal Regulation Materials and Devices for Energy-efficient Applications
Chair: Xun Cao		
<b>Invited</b> 14:25-14:50	Yanfeng Gao	VO <sub>2</sub> Emissivity regulation
<b>Oral</b> 14:50-15:05	Baoshun Liu	Objective-orientated Automatic Optimization Guided Fast Fabrications of High-property VO <sub>2</sub> -based Multilayered Thermochromic Smart Coatings
<b>Oral</b> 15:05-15:20	Xinhong Chu	Effect and Mechanism of W Dopant on Thermochromism Properties of VO <sub>2</sub> Thin Films by Magnetron Sputtering and Post-oxidation
<b>Oral</b> 15:20-15:35	Shouqin Tian	Photochromic W <sub>18</sub> O <sub>49</sub> Nanoparticles Dispersed Films for Smart Window
<b>15:35-15:50 (Coffee break)</b>		
Chair: Shouqin Tian		
<b>Invited</b> 15:50-16:15	Xungang Diao	Multifunctional Inorganic All-solid-state Electrochromic Glasses and Energy Saving Window Applications
<b>Invited</b> 16:15-16:40	Guofa Cai	Large-Area Electrochromic Smart Glass
Chair: Xungang Diao		
<b>Invited</b> 16:40-17:05	Yanzhi Wang	Long Lifetime and High Stability Space Laser Coatings
<b>Oral</b> 17:05-17:20	Xiangyang Liu	Key Preparation Technology and Large-scale Production of Highly Transparent and Conductive Tin Oxide Films
<b>Oral</b> 17:20-17:35	Junjie Huang	Designing V <sub>2</sub> O <sub>5</sub> /MXene van der Waals Heterostructure for Multifunctional Color Glass
<b>Oral</b> 17:35-17:50	Fangyuan Zhao	A Facile Electrochemical Lithiation Method to Prepare Porous Nickel Oxide Electrodes with High Electrochromic Performance

<b>14 (Tue) Grand Ballroom A PM</b>		
<b>Session C: Glass Structure and Glass Transition</b>		
Chair: Ning Xu		
<b>Invited</b> 13:30-13:55	Akihiro Yamada	In-situ observation of the structure and physical properties in aluminosilicate glass
<b>Invited</b> 13:55-14:20	Sung Keun Lee	Glasses above Multi-Megabar Pressure
Chair: Akihiro Yamada		
<b>Invited</b> 14:20-14:45	Ning Xu	Instabilities of disordered solids under load
<b>Oral</b> 14:45-15:00	Jinrong Zhang	Effect of non-bridging oxygen on thermal, electrical, and optical properties of germanate glass
<b>Oral</b> 15:00-15:15	Nian Shi	Studying the Influence of Glass Modifiers on Molybdenum Dispersion in Boron
<b>Oral</b> 15:15-15:30	Wenyan Zheng	Unlocking the High-Photosensitivity Direct Laser Writing: Designing Structures and Observing Atomic Clustering in Glass
<b>15:30-15:45 (Coffee break)</b>		
Chair: Neng Li		
<b>Oral</b> 15:45-16:00	Tian Hu	Silver quantum cluster activated borosilicate glasses: How to mutually fulfill PL efficiency and chemical stability
<b>Oral</b> 16:00-16:15	Xuefei Ke	Mg and Al mixed effects on thermal performances in aluminosilicate glasses
<b>Oral</b> 16:15-16:30	Yu Zhong	Transparent-to-gray electrochromic glass based on the nickel oxide
<b>Oral</b> 16:30-16:45	Junhao Xing	Tuning the mechanical performances through phase separation in aluminosilicate glasses
<b>Oral</b> 16:45-17:00	Jiayu Liu	Study on the structure and properties of $\text{La}_2\text{O}_3\text{-TiO}_2\text{-Nb}_2\text{O}_5\text{-B}_2\text{O}_3$ glass
<b>Oral</b> 17:00-17:15	Penghui Yang	Study on technological factors of the physical strengthening of glass

<b>14 (Tue) Osmanthus Room PM</b>		
<b>Session D: Advanced Functional Glass and Application</b>		
Chair: Yinsheng Xu		
<b>Keynote</b> 13:30-14:00	Shibin Jiang	High Peak Power Fiber Lasers and Applications
<b>Invited</b> 14:00-14:25	Zhiyong Yang	Chalcogenide glass fiber bundles for infrared imaging
Chair: Zhiyong Yang		
<b>Invited</b> 14:25-14:50	Yinsheng Xu	Infrared micro-nano fiber sensor for organic detection
<b>Oral</b> 14:50-15:05	Shiliang Kang	Preparation and Application of Chalcogenide Thermoelectric Fiber
<b>Oral</b> 15:05-15:20	Qiuju Zheng	Chemical Durability of Borosilicate Glasses
<b>Oral</b> 15:20-15:35	Guang Yang	Amorphous tungsten bronze doped near-infrared-shielding glasses for energy-saving applications
<b>15:35-15:45 (Coffee break)</b>		
Chair: Qiuju Zheng		
<b>Oral</b> 15:45-16:00	Zhenxuan Zhang	The application of metallic glass-based advanced oxidation processes (AOPs) in water treatment
<b>Oral</b> 16:00-16:15	Chaofeng Zhu	Cu and Eu Doped Oxyfluoride Boroaluminosilicate Glasses and Glass-ceramics
<b>Oral</b> 16:15-16:30	Minghui Zhang	New oxide optical functional glass materials
<b>Oral</b> 16:30-16:45	Jihong Zhang	Sol-Gel Derived Multi-Layer Bulk Silicate Glass with Graded Refractive Index
<b>Oral</b> 16:45-17:00	Linlin Tan	Broadband NIR-emitting Te cluster-doped glass for smart light source towards multifunctional applications
Chair: Jihong Zhang		
<b>Oral</b> 17:00-17:15	Muzhi Cai	Optical Functional Glass and Glass-Ceramics Processed by Spark Plasma Sintering
<b>Oral</b> 17:15-17:30	Il Jung Yoon	Tailoring Thermo-Optic Coefficient of Selenide Glasses for Use as Thermal Imaging Lenses
<b>Oral</b> 17:30-17:45	Heming Zhou	Mixed alkali-zinc effects on thermo-mechanical properties in borosilicate glasses

<b>14 (Tue) Lotus Room PM</b>		
<b>Session E: Glass Crystallization and Glass Ceramics</b>		
Chair: Yuan Gao		
<b>Invited</b> 13:30-13:45	Guoping Dong	Luminescent Nanocrystal-doped Glass and Fiber
<b>Oral</b> 13:45-14:00	Jing Wang	Lithium Aluminosilicate Glass-Ceramics With Ultra-High Fracture Strength Induced by Amorphization
<b>Oral</b> 14:00-14:15	Tianze Wan	Atomistic simulation of interfacial dynamics in nanocrystal-in-glass composites
<b>Oral</b> 14:15-14:30	Lei Liu	Crystallization properties of BaAl <sub>2</sub> Si <sub>2</sub> O <sub>8</sub> in the 40SiO <sub>2</sub> -25Al <sub>2</sub> O <sub>3</sub> -20BaF <sub>2</sub> -15Na <sub>2</sub> O glass
Chair: Guoping Dong		
<b>Invited</b> 14:30-14:45	Yuan Gao	Glass-Ceramics with Eu <sup>2+</sup> /Eu <sup>3+</sup> Selective Distribution in Oxide/Fluoride Crystalline Phases for UV-Pumped Warm White Light-Emitting Diodes
<b>Oral</b> 14:45-15:00	Hanwei Wu	Effect of CaO on the formation of Te <sub>2</sub> - color center and CdTe quantum dots in glasses
<b>Oral</b> 15:00-15:15	Yeming Zhang	Glass Ceramics Containing Mullite Type Al <sub>4</sub> B <sub>2</sub> O <sub>9</sub> Crystal Phase for Broadband Near-Infrared Luminescence
<b>Oral</b> 15:15-15:30	Yongmin Duan	Enhanced Luminescence Of Self-Crystallized Cs <sub>4</sub> PbBr <sub>6</sub> Quantum Dots via Regulating Glass Ceramic Network Structure
<b>15:30-15:45 (Coffee break)</b>		
Chair: Yeming Zhang		
<b>Oral</b> 15:45-16:00	Abhishekkumar Wadhwa	Multi-phase Glass-Ceramics Containing MF <sub>2</sub> :Yb <sup>3+</sup> /Er <sup>3+</sup> (M=Ca, Sr) and ZnAl <sub>2</sub> O <sub>4</sub> :Cr <sup>3+</sup> Crystalline Phases for Optical Temperature Sensing
<b>Oral</b> 16:00-16:15	Quan Dong	Broadband NIR luminescence of subnano Te cluster in glass

<b>14 (Tue) Magnolia Room PM</b>		
<b>Session I: Advanced Glass Processing Technology</b>		
Chair: Haizheng Tao		
<b>Keynote</b> 13:30-14:00	Yong Gyu Choi	A New Molten-Salt-Bath-Free Ion Exchange Technique for Alkali-Containing Silicate Glasses
<b>Invited</b> 14:00-14:25	Lijing Zhong	A general approach to control the cross-section of laser-written optical waveguides in glass
Chair: Lijing Zhong		
<b>Oral</b> 14:25-14:40	Yao Zhou	Ion-exchange controlled precipitation of cesium lead halide nanocrystals in glasses
<b>Oral</b> 14:40-14:55	Ji In Lee	In-Situ Observation of Ultra-Thin Glass Deformation Induced by Ion Exchange
<b>Oral</b> 14:55-15:10	Yudong Zhang	Eu <sup>2+</sup> : CsCaX <sub>3</sub> (X=Cl, Br, I) perovskite nanocrystals in glasses for blue light-emitting applications
<b>Oral</b> 15:10-15:25	Kim Hyun	Broadening the Long-Wavelength Infrared Abbe Diagram Using Te-Based Chalcogenide Glasses
<b>15:25-15:40 (Coffee break)</b>		
Chair: Yong Gyu Choi		
<b>Keynote</b> 15:40-16:10	Hong Wang	An All Solid Inorganic Electrochromic Glass
<b>Invited</b> 16:10-16:35	Haizheng Tao	Ultrafast laser micromachining solutions and mechanisms for ultra-low expansion glass-ceramic
Chair: Hong Wang		
<b>Invited</b> 16:35-17:00	Chuang Dong	Composition formulas of silicate glasses
<b>Oral</b> 17:00-17:15	Qingfeng Yuan	New Development of Ultra Fast Laser Assisted Hard and Brittle Material Processing

<b>14 (Tue) Grand Ballroom B PM</b>		
<b>Session G: Modeling, simulation and artificial intelligence of glasses</b>		
Topic 5: First principles and classical simulations of glass properties II Chair: Pengfei Guan and Hiroyuki Inoue		
<b>Invited</b> 13:30-13:55	Shingo Urata	Force-Matching Potential for Investigating an Effect of $\text{Al}_2\text{O}_3$ Addition on the Thermal Expansion of Sodium Alkaline-Earth Silicate Glasses
<b>Invited</b> 13:55-14:20	Hong Li	Raman Spectroscopic Study of MgO-CaO- $\text{Al}_2\text{O}_3$ - $\text{SiO}_2$ Glasses and Statistical Modeling of Composition-Structure-Property Relationships
<b>Oral</b> 14:20-14:35	Ci Wang	Theoretical Insights into Band Gap and Defect Engineering for Enhanced Properties in Glass-Ceramics Scintillators
<b>Oral</b> 14:35-14:50	Yong Yang	Application of Digital Technology in Research and Development of new Glass Materials
<b>Oral</b> 14:50-15:05	Taygun Akar	Enhancing Production Efficiency: A Statistical Approach to Glass Coloring and Optical Performance
<b>Oral</b> 15:05-15:20	Burcin gul Arslanoglu	Pushing the Limits of Production in Float Furnaces
<b>Oral</b> 15:20-15:35	Tao Du	Predicting Fracture and Conduction Propensity in Glassy Electrolytes Using Classification-Based Machine Learning
<b>15:35-15:45 (Coffee break)</b>		
Topic 6: Machine learning and artificial intelligence in glass modelling Chair: Hong Li and Lu Deng		
<b>Invited</b> 15:45-16:10	Han Liu	Deciphering a Structural Signature of Glass Dynamics by Machine Learning
<b>Oral</b> 16:10-16:25	Yuanqing Lu	Machine Learning for Predicting the Distribution of Multiple $\text{Al}_2\text{O}_3$ Phases Synthesized by Plasma-Assisted Aerosol
<b>Oral</b> 16:25-16:50	Rasmus Christensen	Predicting Dynamics in Sodium Silicate Glasses Using Graph Neural Networks
<b>Oral</b> 16:50-17:05	Xiaodi Liu	Undersanding Glass Formation Ability and Origin of Plasticity in Metallic Glasses Through Machine Learning Techniques

<b>15 (Wed) Narcissus Room PM</b>		
<b>Session J: Low Carbon Glass and Related Technology</b>		
Chair: Xin Cao		
<b>Keynote</b> 8:30-9:00	Xin Cao	Low carbon development status and trend of advanced glass materials
<b>Invited</b> 9:00-9:25	Xiaobo Peng	Ultra-light and high-strength hollow glass microspheres and its application
<b>Oral</b> 9:25-9:40	Songlin Shi	Anhydrous Borate for Carbon Emission reduction



<b>15 (Wed) Osmanthus Room AM</b>		
<b>Session D: Advanced Functional Glass and Application</b>		
Chair: Qun Zu		
<b>Invited</b> 8:30-8:55	Qing Li	Application and Future of Electronic Glass
<b>Invited</b> 8:55-9:20	Ruichun Wang	Manufacture and application of high-end optical quartz
Chair: Qing Li		
<b>Invited</b> 9:20-9:45	Yonggang Huang	Research progress in optical fiber imaging glass materials for weak photoelectric signal detection
<b>Invited</b> 9:45-10:10	Qun Zu	Process variables for the mechanical properties of high-strength glass fibers
<b>Oral</b> 10:10-10:25	Yan Sun	Advance in L-band Er <sup>3+</sup> doped multi-component glass fibers
<b>10:25-10:35 (Coffee break)</b>		
Chair: Yonggang Huang		
<b>Oral</b> 10:35-10:50	Xiaofei Shi	Design and fabrication of functional glass featured with electromagnetic stealth and optical transparency
<b>Oral</b> 10:50-11:05	Jiangkun Cao	Mechano-luminescent glass, glass ceramics and glass-crystal composites
<b>Oral</b> 11:05-11:20	Liaolin Zhang	Efficient ~3.5 μm fluorescence via Heavily Er <sup>3+</sup> doped glasses and crystal
<b>Oral</b> 11:20-11:35	Qiong Xie	On the erasure of femtosecond laser imprinted nanogratings in optical glasses
Chair: Ruichun Wang		
<b>Oral</b> 11:35-11:50	Yingang Chen	High-power lasing at ~900 nm in Nd <sup>3+</sup> -doped fiber: a direct coordination engineering approach to enhance fluorescence
<b>Oral</b> 11:50-12:05	Panting Wang	Transparent Long-lasting Phosphorescent Al <sub>2</sub> O <sub>3</sub> - CaO Glasses Activated by Cu <sup>+</sup>

<b>15 (Wed) Lotus Room AM</b>		
<b>Session E: Glass Crystallization and Glass Ceramics</b>		
Chair: Weichao Wang		
<b>Invited</b> 8:30-8:55	Xiaofeng Liu	Linear and Nonlinear Optical Properties of Glass-Ceramics Containing Plasmonic Metal Oxide Nanoparticles
<b>Oral</b> 8:55-9:10	Shuanli Dong	Quantitatively Predicting the Optical and Spectroscopic Properties of Nd <sup>3+</sup> -Doped Laser Glasses
Chair: Xiaofeng Liu		
<b>Invited</b> 9:10-9:35	Weichao Wang	Fluoro-Sulfo-Phosphate Glass and Glass Ceramic as Hosts for Broadband Optical Amplification and Fiber Laser
<b>Oral</b> 9:35-9:50	Yu Rao	Preparation of NAS Transparent Nanocrystalline Glass-ceramic by Cooperating Phosphorus and Zirconium
<b>Oral</b> 9:50-10:05	Xiaoqing Liu	The Mechanism of Water-Induced Enhanced Green Emission in Cs <sub>4</sub> PbBr <sub>6</sub> PQDs Glass Ceramic
<b>Oral</b> 10:05-10:20	Maria Jesus Pascual	Rare-Earth-Doped Nanostructured Glass-Ceramics: Processing And Properties
<b>Oral</b> 10:20-10:35	Xiaosong Lu	Mid-infrared Emission of Cobalt Doped Chalcogenide Glass Ceramics
10:30-10:45 (Coffee break)		

<b>15 (Wed) Magnolia Room AM</b>		
<b>Session I: Advanced Glass Processing Technology</b>		
Chair: Hao Liu		
<b>Invited</b> 8:30-8:55	Shujiang Liu	Transparent Glaze Containing High-Alumina Glass Frit: Batch-to-Melt Conversion
<b>Invited</b> 8:55-9:20	Hao Liu	Advanced Processing Technologies of Specialty Glass for Home Appliance and Consumer
<b>Oral</b> 9:20-9:35	Jie Zhang	Large Area Patterning of Ultra-High Thermal-Stable Structural Colors in Transparent Solids
Chair: Hao Liu		
<b>Oral</b> 9:35-9:50	Qiong Xie	On the Erasure of Femtosecond Laser Imprinted Nanogratings in Optical Glasses
<b>Oral</b> 9:50-10:05	Zhe Tao	Plasticity and Rejuvenation of Aged Metallic Glasses by Ultrasonic Vibrations
<b>Oral</b> 10:05-10:20	Xuhu Han	High-Order Mode Laser Direct Writing Waveguide for Conformal 3D Photonics Circuits
<b>Oral</b> 10:20-10:35	Zhuolun Li	Development And Characterization of A Novel RE <sup>3+</sup> Doped Core-Shell CeO <sub>2</sub> Abrasive System and its
10:35-10:45 (Coffee break)		
Chair: Shujiang Liu		
<b>Oral</b> 10:45-11:00	Luyao Li	Joining of Metallic Glasses in Liquid via Ultrasonic Vibrations
<b>Oral</b> 11:00-11:15	Jin He	Sol-Gel Nanoporous Glasses

<b>Poster</b>		
<b>13 (Thu) VIP Room PM (17: 00-18: 30)</b>		
1.	Youzhe Ma	Changes in physical and chemical properties of fused silica after subsurface damage layer removal
2.	Xiaoyu Han	Noble Metal Nanostructures Based Surface-enhanced Raman Scattering Fiber Probe for Trace Molecular Detection
3.	Yu Han	Research on several factors affecting the test of expansion coefficient of glass materials
4.	Jing Tian	Insight into the structure and crystallization of SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> -P <sub>2</sub> O <sub>5</sub> -Na <sub>2</sub> O-MgO/CaO glass-ceramic system with Mg-Ca substitution: A molecular dynamics study
5.	Weilin Chen	Structural simulation and spectral calculation of silver quantum cluster activated borate glasses: A spin-orbit coupling involved first-principles study
6.	Chen Dai	Investigations on Mo rich Simulated HLW Borosilicate Glass by Statistical Glass Structure Gene Modeling
7.	Lu Wang	Machine learning-based accelerated design of glasses with targeted young's modulus
8.	Yuanqing Lu	Gaussian process regression for predicting the electrical conductivity of complex ionic glasses
9.	Jingping Yan	Machine Learning Driven Model on the Glass Forming Ability of Nuclear Waste Glasses
10.	Yajiao Zhang	Development of bromine-related potentials for molecular dynamics simulations of the oxyhalide photo-thermo-refractive glass
11.	Liping Yu	Glass Network Regulation and Improved Optical Performance of CsPbX <sub>3</sub> (X=Cl, Br, I) QDs glass via GeO <sub>2</sub>
12.	Mingshuang Zheng	Tunable Luminescence of CsPbCl <sub>x</sub> Br <sub>3-x</sub> Quantum Dots Glass: A Potential Material for Cyan Gap Compensation
13.	Cairu Peng	Effect of Lu <sup>3+</sup> ions on optical properties of Er <sup>3+</sup> /Yb <sup>3+</sup> co-doped oxyfluoride glass-ceramics containing Y <sub>5</sub> O <sub>4</sub> F <sub>7</sub> nanocrystals
14.	Yuying Wang	Glass photonic wires for bonding PLCs and fibers
15.	Jiacheng Hu	Femtosecond laser single-pulse plane-by-plane inscription of low loss FBG
16.	Seong Young PARK	Chemical Strengthening Properties of SiO <sub>2</sub> -Na <sub>2</sub> O-Al <sub>2</sub> O <sub>3</sub> -Ba <sub>2</sub> O <sub>3</sub> Glasses Varying Composition Change and Related Structural Study via MD simulation
17.	Sangwoo Park	Control of Macroscopic Deformation of Silicate Glass Sheets via Position-Selective Ion Exchange
18.	Hyunah Kim	Compositional study on Germanate Glass System for Lead-Free Perovskite Nanocrystal-Embedded Glass for LED Applications

19.	Se Young Ko	Raman Spectroscopic Analysis of Alkali-Aluminosilicate Glasses for Chemical Strengthening
20.	Seok Jin Hong	Machine Learning Based Prediction of Refractive Index and Glass transition temperature of B <sub>2</sub> O <sub>3</sub> -La <sub>2</sub> O <sub>3</sub> -Ta <sub>2</sub> O <sub>5</sub> -ZnO Glasses for High Refractive Index Optical Lens
21.	Jin Hyuk Lee	Correlations Between Oxidation States of Ti Ions and Optical Transmittance in TiO <sub>2</sub> -SiO <sub>2</sub> Glasses
22.	Jiangkun Cao	Ultrasound-Induced Luminescence from Cr <sup>3+</sup> -Doped ZnGa <sub>2</sub> O <sub>4</sub> Glass-Ceramic Composites
23.	Ying Chen	Development and Industrialization of key technologies for new Large-Area High Efficiency Cadmium Telluride Thin Film Solar Cells
24.	Shigang Zhang	Design and Construction of Glass Furnace Crown with Large Span of Over 1 000 t/d
25.	Shigang Zhang	Research and Design of Channel of Ultra-large Solar Ultra-clear Rolled Glass Furnace
26.	Ziqiang Chen	Inorganic multi-color transmissive-type electrochromic electrodes based on Fabry-Perot interferometer for full-solid smart window
27.	Mengtao Sun	A facile hydrothermal method for preparing niobium-tungsten bimetallic oxide electrodes with high dual-band electrochromic performance
28.	Yuan Gao	Glass-Ceramics with Eu <sup>2+</sup> /Eu <sup>3+</sup> Selective Distribution in Oxide/Fluoride Crystalline Phases for UV-Pumped Warm White Light-Emitting Diodes
29.	Jingyuan Chu	Application and Development of Building Integrated Photovoltaic
30.	Yinghan Wang	Photoionic Effect Imposed by Photoresponsive Local Field in a Tellurate Glass with Lanthanide Ions and Ag Nanoparticles
31.	Zhousu Xu	Preparation and optimization of optical properties of CsPbX <sub>3</sub> perovskite quantum dot glass
32.	Yu Qiu	Fabrication and Properties of Long-Wave Infrared Chalcogenide Glass Fiber Image Bundle
33.	Jiawei Liu	The molecular dynamics simulation method was used to study the structural evolution mechanism of glass under radiation field by controlling variables
34.	Feimei Wang	The formation and evolution mechanism of silica glass defects under the action of mechanical field was studied by means of computational simulation.
35.	Songxiao Lu	Mid-infrared Emission of Cobalt Doped Chalcogenide Glass Ceramics

<b>Poster</b>		
<b>14 (Tue) VIP Room PM (17: 00-18: 30)</b>		
36.	Zhuo Wang	Single-shot photon recording for permanent optical data storage based on photoluminescent glass
37.	Jianwei Lu	Preparation and luminescence properties of MgO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> transparent glass-ceramics containing metastable phase
38.	Wenjing Su	Comparison Study on Ionic Conductivity of Sol-gel and PVD LiTaO <sub>3</sub> Electrolyte Films
39.	Ruite Liu	ErF <sub>3</sub> microcrystals deposited in perfluoride glass for up-conversion red emission
40.	Jinlei Wang	Study on preparation and self-cleaning properties of biomimetic AlPO <sub>4</sub> array coated glass
41.	Yeming Zhang	Glass ceramics containing mullite type Al <sub>4</sub> B <sub>2</sub> O <sub>9</sub> crystal phase for broadband near-infrared luminescence
42.	Xinlin Ma	Impact of Fe <sub>2</sub> O <sub>3</sub> content on performance of ferrosilicate glasses and glass fibers
43.	Meinan Wan	Monolayer thermochromic VO <sub>2</sub> films with Superior durability fabricated by a facile chemical method
44.	Jiahui Tao	W <sub>18</sub> O <sub>49</sub> /PAM-PNIPAM hydrogel based smart windows with enhanced dual photo- and thermochromic performance
45.	Senwei Wu	Thermochromic VO <sub>2</sub> @Al <sub>2</sub> O <sub>3</sub> with Excellent High Temperature Resistance and Durability by Atomic Layer Deposition
46.	Shengtao Liu	Preparation and Antibacterial Properties of Ag Zn Doped Antibacterial Phosphate Glass and Glass Fiber
47.	Congyuan Wei	Processable nanoarchitectonics of two-dimensional metallo-supramolecular polymer for electrochromic energy storage devices with high coloration efficiency and stability
48.	Yixi Wu	Observation of Tunable Persistent Luminescence in XAl <sub>2</sub> O <sub>4</sub> : Eu <sup>2+</sup> (X=Ca, Sr) Doped Borate Glass for Efficient Optical Information Storage
49.	Mingshuang Guan	Tunable Luminescence of CsPbCl <sub>x</sub> Br <sub>3-x</sub> Quantum Dots Glass: A Potential Material for Cyan Gap Compensation
50.	Weilin Tao	Structural simulation and spectral calculation of silver quantum cluster activated borate glasses: A spin-orbit coupling involved first-principles study
51.	Jianchao Lu	Study on the optimum nucleation temperature of niobate glass
52.	Jingtao Zhao	Controllable microstructure and crystallization of germanate glass
53.	Liping Yu	Glass Network Regulation and Improved Optical Performance of CsPbX <sub>3</sub> (X=Cl, Br, I) QDs glass via GeO <sub>2</sub>

54.	Ci Wang	Defect-driven scintillation from $\gamma$ -Ga <sub>2</sub> O <sub>3</sub> nano-phosphors embedded glass-ceramics
55.	Taicheng Fu	Practice of stable operation and emergency response of power supply and distribution system in flat glass factory
56.	Bin Li	Fully Discrete VO <sub>2</sub> Particulate Film with Ultra-High Luminous Transmittance and Excellent Thermochromic Performance
57.	Xingzhong Chen	Green Synthesis of Ultra-bright Luminescent Carbon Dots for High-performance Tandem Luminescent Solar Concentrators
58.	Xiaoqing Liu	The mechanism of water-induced enhanced green emission in Cs <sub>4</sub> PbBr <sub>6</sub> PQDs glass ceramic
59.	Yingying Zhang	Effect of synthesis condition on the structure of aluminum-doped zinc oxide
60.	Zhiyuan Leng	Preparation and structure of Ga-doped zinc oxide nanoparticles
61.	Ziao Wang	Double-layer broadband SiO <sub>2</sub> anti-reflection films with high transmittance and excellent mechanical performance for solar cells
62.	Yushi Chu	Silica Optical Fibers Fabricated by Additive Manufacturing Technology
63.	Penghui Yang	Study on technological factors of the physical strengthening of glass
64.	Jiayu Liu	Study on the properties of high refractive index glass in La <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> -Nb <sub>2</sub> O <sub>5</sub> -B <sub>2</sub> O <sub>3</sub> system
65.	Zhibiao Ma	The high-entropy oxide glasses demonstrate an exceptionally high refractive index and outstanding mechanical properties
66.	Xin Li	Created New Bismuth Near-infrared Luminescence Center in Bismuth/Germanium co-doped Silica Glass via High-temperature and High-pressure Reduction
67.	Longxiao Zhou	Preparation of porous 3D stacked WO <sub>3</sub> -TiO <sub>3</sub> film: structural design and high electrochromic properties
68.	Pengkai Shang	Effect of early densification on preparation of open-pores foaming glass by glass-SiC mixture
69.	Bozhao Ying	Influence of glass structure units on the electronic structure of cesium lead halide perovskite quantum dots
70.	Hanmeng Zhang	Effect of sodium on the structural organization of Mixed Network Former in the system of NaPO <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> -Na <sub>2</sub> CO <sub>3</sub> : Insights from advanced SSNMR spectroscopy
71.	Nian Shi	Studying the Influence of Glass Modifiers on Molybdenum Dispersion in Boron