

POSTER

Mon. August 14

Symposia	Abstract No.	Author's name	Title
Boson Peak	P-G-BP-1a	Mohamed Aejaz Kolmangadi	Low frequency vibrational density of state of Janus-polynorbornenes – The dependence of the Boson peak on the nanophase separated structure.
	P-G-BP-2a	Vishnu Krishnan V.	Low-frequency Vibrations of Shear-Stable Amorphous Solids
Dynamic Heterogeneity & Glass Transition	P-G-DH-1a	Cho-Tung Yip	Quasivoid-Induced Structural Relaxation in Colloidal Glass Formers: Microscopic origin of stringlike Motions
	P-G-DH-2a	Cho-Tung Yip	Diffusion-Coefficient Power Laws and Defect-Driven Glassy Dynamics in Swap Acceleration
	P-G-DH-3a	Ryohei Hanai	Prediction of a Trigger of Hopping Motion in Deeply Supercooled Liquid of Binary Hard Disk Systems
	P-G-DH-4a	Shiladitya Sengupta	Stokes-Einstein Breakdown in Stillinger-Weber Silicon
Ultrastable Glasses	P-G-UG-1a	Misaki Ozawa	Creating bulk ultrastable glasses by random particle bonding
	P-G-UG-2a	Ibuki Furuno	Deposition Temperature Dependencies of Annealing Effect in Vapor-deposited Ultrastable Phenolphthalein Glass
Thermal Properties & Glass Transition	P-G-TP-1a	Mitsuru ISHIKAWA	Polymer Relaxation Time Enhancement Predicted by Mode-Coupling Theory
	P-G-TP-2a	Daria Szweczyk	New experimental setup for measurements of thermal conductivity and specific heat in glassy materials at low temperatures
	P-G-TP-3a	Simone Capaccioli	Fast Differential Scanning Calorimetry: novel approaches for data analysis of transitions in organic molecular glass-formers
	P-G-TP-4a	Eri Nishiyama	Analysis of the configurational heat capacity of polystyrene and polyisobutylene above the glass transition temperature
	P-G-TP-5a	Tomoyuki Yamaguchi	Polymer Molecular Weight Dependences of Glass Transition of Dimer-polymer Mixtures in α -methyl Styrene Systems
Electron Glasses	P-G-EG-1a	Satoshi Tsuchiya	A glassy structural transition in a charge-frustrated organic conductor probed by polarized femtosecond spectroscopy
	P-G-EG-2a	Masafumi Udagawa	Competing orders and relaxation dynamics of a frustrated charge system with Coulomb interaction
	P-G-EG-3a	Jun Takahashi	Semidefinite programming approach to probe glassy quantum systems
Spin Glasses & Disordered Magnets	P-G-SM-1a	Subaru Yoshimoto	Strong non-equilibrium effects and slow relaxation in the multi-metastable states of the frustrated magnet DyRu ₂ Si ₂
	P-G-SM-2a	Angelo Giorgio Cavaliere	Biased thermodynamics can explain the behaviour of smart optimization algorithms that work above the dynamical threshold
	P-G-SM-3a	Yuki Rea Hamano	Spatial evolution of RSB in generalized DBMs
	P-G-SM-4a	Bharadwaj Vedula	Exploring Phase Transitions in One-Dimensional Diluted Power-Law XY Spin Glass: A
Interrelation between T & V in Dynamics of Liquids & Polymers	P-G-TV-1a	Vadim Brazhkin	Can glass-forming liquids be “simple”?
Local Order in Liquids & Glasses	P-G-LO-1a	Kengo Nishio	Vorotis: Software for Voronoi tessellation analysis using the polyhedron code
	P-G-LO-2a	Peihao Sun	Long-range anisotropy in a Pd-based metallic glass
	P-G-LO-3a	Ayata Ueno	Estimation of Cooperative Rearranging Regions and Configurational Entropy in Monatomic Glass-Forming Liquid
	P-G-LO-4a	Akitoshi Mizuno	Liquid structural features derived from X-ray diffraction and topological data analysis of iron and silicon
	P-G-LO-5a	Yejeung Lee	Characterization of component segregation in co-deposited glasses of TCTA and Ir(ppy) ₃
Water & Ice Anomaly	P-L-WI-1a	Yukio Kajihara	What is critical fluctuation of liquid-liquid phase transition ? - What a comparison of water and tellurium reveals -
	P-L-WI-2a	Reo Sato	Rapid Crystallization at the Surface of Vapor-Deposited Amorphous Water through Hydrates Formation and Dissociation at 120 K
	P-L-WI-3a	Hiroaki Minato	Thermal Behavior and Dynamics of Water Confined in Sephadex G-25 Gels
	P-L-WI-4a	Hiroshi Murakami	Unusual heat generation of nanoconfined water in reverse micelles under microwave irradiation
	P-L-WI-5a	John Russo	Breaking the Ice with Neural Network Potentials: reproducing the nucleation properties of the mW water model
Water, Alcohols & Hydrogen Bonded Systems	P-L-HB-1a	Ken Judai	Anomaly Brownian Motion in Water-Ethanol Mixtures
	P-L-HB-2a	Yuki Fujii	Vibrational Frequency Fluctuations of Thermoresponsive Polymer in Aqueous Solutions Studied by 2D-IR Spectroscopy and Molecular Dynamics Simulations
	P-L-HB-3a	Masahiko Imashimizu	Nonthermal acceleration of protein hydration by sub-THz irradiation

Symposia	Abstract No.	Author's name	Title
Ionic Liquids, Ionic Polymers & Ionic Plastic Crystals	P-L-IL-1a	Hiroki Sumida	Role of conformational entropy in low melting point of ionic liquids
	P-L-IL-2a	Xuechen LIU	Viscosities, Thermal Properties, and Fragilities of Surfactant Ionic Liquids and Ionic Liquid Mixtures with Alkane
	P-L-IL-3a	Maharoor Koyakkat	Low-Frequency Spectra of Hydrated Ionic Liquids having Different Kosmotropicity
	P-L-IL-4a	Elisa Steinrück	Stokes-Einstein-Debye Breakdown in Ionic Liquids and Ionic Liquid-Water Mixtures Studied by NMR
	P-L-IL-5a	Edward Quitevis	Interionic Motional Coupling in Charge Transport in the Ionic Liquid 1-Ethyl-3-Methylimidazolium Methyl Phosphonate
Polymer Dynamics, Viscoelasticity & Rheology	P-P-PD-1a	Lauren W. Taylor	Modifying Glass Transition Temperature through Block-Random Copolymer Sequence
	P-P-PD-2a	Wei Chen	The conformational transitions of polymer chains in shear flow measured by FRET
	P-P-PD-3a	Mithun Madhusudanan	Decoupling the effect of molecular recoiling stress from modulus and viscosity in dewetting thin plasticized polystyrene films
	P-P-PD-4a	SUDESHNA DHAR	Simultaneously Probing Viscosity in Thin Immiscible Polymer Bilayer Films by Dewetting
	P-P-PD-5a	Yu YeongJun	Damage-detectable and Self-healable Photoluminescent Dual Dynamic Supramolecular Networks
	P-P-PD-6a	Shota Goto	Non-Gaussianity and dynamic heterogeneity in ring polymer melts
	P-P-PD-7a	Naoki Shintani	Polarization Imaging of Shear Band in Couette Flow
	P-P-PD-8a	Guozhang Wu	New Experimental Evidence for Thermodynamic Links to the Kinetic Fragility of Glass-forming Polymers
Polymer Nanocomposites & MOF	P-P-PN-1a	Kosuke Kitase	Penetrated Cyano-bridged spin-crossover coordination polymer with 4-pyrimidine-type ligand and guest
	P-P-PN-2a	Takashi KOSONE	The cooperative effect by substituent-substituent contact on spin crossover behavior in 2-dimensional Hofmann-like coordination polymers
	P-P-PN-3a	Hee Cheol Kang	Preparation and Characterization of Mechanically-Enhanced Poly(butylene succinate)/Polylactide (PBS/PLA) Nanocomposite with Surface-Modified Nanocellulose
	P-P-PN-4a	Wessel Martinus Wilhelmus Winters	Structural Relaxation & Rearrangement in MOFs
	P-P-PN-5a	Shun Sato	Dynamics of absorbed acetonitrile and Mg-ionic conduction in a metal-organic framework MIL-101
Granular Materials & Jamming	P-CJA-GJ-1a	DUC DAM T.	Hyperuniformity in disk packings between extremes of order and disorder
	P-CJA-GJ-2a	Michio Tateno	Mechanical self-organization of particle networks under uniaxial compression
	P-CJA-GJ-3a	Kiwamu Yoshii	Jamming of granular materials in channel flow : effect of cohesion
Amorphous Pharmaceuticals	P-B-AP-1a	Yejoon Seo	Physical Aging of Hydroxypropyl Methylcellulose Acetate Succinate Spray-dried Dispersions using Fast Scanning Calorimetry
	P-B-AP-2a	HAN Xue	Influence of nucleation on dynamics of celecoxib glass
	P-B-AP-3a	Ivo B. Rietveld	Amorphous solid dispersion thin films of ketoprofen and polyethylene glycol prepared by spin-coating and their stability as a function of humidity
	P-B-AP-4a	Tianyun Zhang	Impact of Structural Relaxation in Amorphous Solid dispersions
	P-B-AP-5a	Michela Romanini	Eutectic mixture formation and relaxation dynamics of coamorphous mixtures of two antifungal imidazole drugs
Glassy Phenomena in Foods	P-B-GF-1a	Takumi Mochizuki	Glass transition and solidification of Maca (<i>Lepidium meyenii</i> Walpers) powder
	P-B-GF-2a	Sukritta Anantawittayanon	Effects of temperature and moisture content on the caking of amorphous carbohydrate powders
Dynamics of Biomolecular Systems	P-B-BS-1a	Shun Sawada	Theoretical analysis of dopamine chemical reaction network using structural sensitive analysis
	P-B-BS-2a	Ryohei Kuriyama	Investigation of non-thermal effects of sub-terahertz on living <i>Caenorhabditis elegans</i>
	P-B-BS-3a	Lirong Zheng	Universal Dynamical Onset in Water at Distinct Material Interfaces
Glass Transition in Biomatter	P-B-GT-1a	Sugawara Ibuki	Dynamical observation of the crystallized protein in the living <i>Caenorhabditis elegans</i> cells
Confinement & Thin Films	P-LD-CF-1a	Qing Wang	Capillary Deformation of Thin Rubbery Polymer Film
	P-LD-CF-2a	Josh M. Gramlich	Thermodynamics and dynamics of quasi-one-dimensional confined lattice fluids
	P-LD-CF-3a	Katelyn Randazzo	Influence of Interaction Strength on Glassy Properties of Adsorbed Polymer Nanolayers
	P-LD-CF-4a	Erik Thoms	Predicting polymer adsorption rates from molecular dynamics

Symposia	Abstract No.	Author's name	Title
Relaxations & Diffusion in Metallic Glasses	P-TR-MG-1a	TAN YUAN	Fast beta relaxation and structure relaxation by sub- T_g annealing in metallic glasses of different fragilities
Anomalous Diffusion in Disordered Systems	P-TR-MG-2a	Junichi Kawamura	Anomalous Diffusion in Restricted Space Detected by Pulsed Field Gradient NMR:- Application to Porous Membrane for Lithium Ion Battery -
Linear & Nonlinear Dielectric Dynamics	P-R-DD-1a	Yuima Kawatani	Dielectric a Relaxation of Sugar Alcohols
	P-R-DD-2a	Yuto Awano	Effect of Intermolecular Hydrogen Bond on Relaxation Dynamics of Deep Eutectic Solvents Studied by Broadband Dielectric Spectroscopy from sub-GHz to THz Frequency Range
	P-R-DD-3a	Kazuya Okita	New diffusion theory of molecular liquids based on the energy representation solution theory
	P-R-DD-4a	M. Shahin Thayyil	Insights on rich dynamics in glass-formers by compositional changes and modifying thermodynamics
Crystallization vs. Vitrification	P-CG-CV-1a	Yael Beilinson	Water dynamics in confinement at low temperatures
	P-CG-CV-2a	Yuki Takaha	Crystallization dynamics of deeply supercooled liquids
	P-CG-CV-3a	Jinyun Liu	Size Effect on Polymorph Selection in the Crystallization of Liquid Gallium
	P-CG-CV-4a	Ulf R. Pedersen	Computing coexistence lines by combining interface pinning and integration of the Clausius–Clapeyron identity
Liquid/Plastic Crystals	P-CG-LP-1a	Ewa Ozimina-Kamińska	The nature and pressure evolution of phase transitions in anti-dyskinetic medicine - amantadine
	P-CG-LP-2a	Hiroki Nobori	Phase transitions and dynamics of ionic liquid crystals in nanopores

POSTER

Thu. August 17

Symposia	Abstract No.	Author's name	Title
Dynamic Heterogeneity & Glass Transition	P-G-DH-5b	Eden DZIK	New insights on the glass transition through optical manipulation of chromophores
	P-G-DH-6b	Klaas Wynne	Double glass transitions in single-component homogeneous liquids
	P-G-DH-7b	Chun-Shing Lee	Spatial Heterogeneities in Structural Temperature Cause Kovacs' Expansion Gap Paradox in Aging of Glasses
	P-G-DH-8b	Katsuaki Nakazawa	Relation between dynamic and structural heterogeneities in metallic glass revealed by 5D-STEM
	P-G-DH-9b	Motoki Wakita	Statistical properties of Microstring Activation in Deeply Supercooled Liquids of Binary Hard Disk Systems
	P-G-DH-10b	Andrea plati	Slow timescales in vibrofluidized granular materials
Theory & Simulations of Glasses & Glass Transition	P-G-TS-1b	Hyonggi Kim	A replica theory for the glass transition of polydisperse particles
	P-G-TS-2b	Chun-Shing Lee	Fragile Glasses Associated with a Dramatic Drop of Entropy under Supercooling
	P-G-TS-3b	Gopika Krishnan	Relaxation dynamics of classical and quantum supercooled liquids
	P-G-TS-4b	Yukihiro Tomita	Analysis of point-to-set lengths by $1 + d$ dim replicated liquid theory in large- d limit
Thermal Properties & Glass Transition	P-G-TP-6b	Koun Shirai	Thermodynamic stability of glasses
	P-G-TP-7b	Michaela Včeláková	Relationship between viscosity behavior and relaxation of amorphous $\text{Ge}_{25}\text{Se}_{75}$ and $\text{As}_{20}\text{Se}_{80}$ in the glass transition region
	P-G-TP-8b	Hiroki Fujimori	Glass transitions of 2-bromothiophene-2-chlorothiophene solid solution systems confined within mesoporous silica gel
	P-G-TP-9b	Ryoto Suzuki	Evaluation of absolute value of heat capacity for polyisobutylene above 380 K by DSC
	P-G-TP-10b	John F. Ramirez	Do the material properties of a vitrified material correlate with protection during desiccation?
	P-G-TP-11b	Cunyuan Jiang	Glassy heat capacity from overdamped phasons and a hypothetical phason-induced superconductivity in incommensurate structures
	P-G-TP-12b	Jaewoong Kim	Research of Heat Transfer Finite Element Analysis of Solar Panels
	P-G-NI-1b	Yuta Shuseki	Atomic structure of MgO-SiO_2 liquid and glasses

Symposia	Abstract No.	Author's name	Title
Water & Ice Anomaly	P-L-WI-6b	Niels Giesselmann	Structure of water under confinement in periodic mesoporous organosilicas (PMOs)
	P-L-WI-7b	Hiroshi Murakami	Freezing of reorientational motion of hydration water in reverse micelles at room temperature
	P-L-WI-8b	Yuanxi Yu	The ω^3 scaling of the vibrational density of states in quasi-2D nanoconfined solids
	P-L-WI-9b	Sha Jin	Experimental evidence of the short-scale solid-like dynamics of liquids using nano-confinement
	P-L-WI-10b	Mohd Moid	Proton kinetic energy anomaly and phase transition of nano-confined water
Water, Alcohols & Hydrogen Bonded Systems	P-L-HB-4b	Igor Danilov	Effect of thermobaric history on the elastic properties of propylene glycol oligomer glasses
	P-L-HB-5b	Yuka Arai	Dielectric Relaxations of Polymer and Water in Aqueous Solutions of Poly (vinyl methyl ether) as a Polymer with a Low Glass Transition Temperature
	P-L-HB-6b	Sandra Krüger	Water Dynamics in Aqueous Dipeptide Solutions Studied by ² H NMR and BDS
	P-L-HB-7b	Takumi Nagasawa	Correlation between surface and bulk hydrogen-bond networks in amorphous water studied by IR-MAIRS
	P-L-HB-8b	Koshi Ozama	The lowest frequency Raman spectra mode and Debye relaxation mode in alcohols and aprotic solvents probed by Raman scattering and Dielectric spectroscopy
	P-L-HB-9b	Ralph Ugalino	Generation of water nanoclusters by desorption from a PEDOT:PSS polymer matrix
P-P-PD	P-P-PD-9b	Mohamed Aejaz Kolmangadi	Molecular dynamics of Janus Polynorbornenes: Glass Transitions and Nanophase separation
	P-P-PD-10b	Jiaxin Zhao	Chain-length-dependent relaxation dynamics in poly(methyl acrylate)
	P-P-PD-11b	Andreas Heuer	Polymer electrolytes close to electrodes: impact of electrode charge and chain length
	P-P-PD-12b	Masami Nirei	Dynamics of liquid polymer alkylated polythiophene
	P-P-PD-13b	Taisei Ishiyama	Thermophysical Properties of Polystyrene (PS)-Polybutyl Methacrylate (PBMA) Multiblock Copolymers
	P-P-PD-14b	Huiming Xiong	Hierarchical Dynamics of Hybrid Polymers
	P-P-PD-15b	Seigo Hirai	Effect of Rotaxane Crosslinking on Modulus and Toughness
	P-P-PD-16b	Hsiao-Ping Hsu	Computer simulation guided generation and stabilization of expanded free-standing
Polymer Gels & Networks	P-P-GN-1b	Matthias Gimperlein	Fisher-Widom line and dynamical behavior for systems with competing attractive and repulsive interaction
	P-P-GN-2b	Tulika Sharma	Investigating the Phase Behavior of Alternating Amphiphilic Copolymers in Water using Small-Angle X-Ray Scattering
	P-P-GN-3b	CHEN, Yi-Hsueh	The design of ion-linked double-network hydrogel for pressure colorimetric sensor upon the rheologic properties of hydrogels with the dispersion of gold nanoparticles
	P-P-GN-4b	ENOKI, Takato	Strain-induced Crystallization for Tough and Reversible Ion Gels
	P-P-GN-5b	Christoph Säckel	Solvent Dynamics of Solutions of pNIPAM in Water-Ethanol Mixtures as Studied by NMR
Colloidal Systems & Dispersions	P-CJA-SD-1b	Francesco Dallari	Microsecond Dynamics in Complex Liquids with MHz XPCS
	P-CJA-SD-2b	Alessandro Martinelli	Microscopic pathways for stress-relaxations in a colloidal glass
	P-CJA-SD-3b	Yinqiao Wang	Structural origins of unique mechanical evolution of colloidal gels
	P-CJA-SD-4b	Hirokazu Maruoka	Dynamical impact of dense suspension of millimetre particles
Granular Materials & Jamming	P-CJA-GJ-4b	Hidemasa Bessho	Unified understanding of nonlinear viscoelasticity near jamming transition density
	P-CJA-GJ-5b	Kazuya Kobayashi	The generation and dynamics of a granular jet induced by a sudden acceleration
	P-CJA-GJ-6b	Ye Yuan	Experimental Test of the Edwards Volume Ensemble for Tapped Granular Packings
Dynamics of Biomolecular Systems	P-B-BS-4b	Masako Shimizu	Effect of 2'-OH Group on Intermolecular Dynamics of Nucleotides in Aqueous Solution
	P-B-BS-5b	Maddalena Bin	Coherent X-ray Scattering Nanoscale Fluctuations in Supercooled Hydrated Proteins
	P-B-BS-6b	Fan Jiang	Creatinase: Using Increased Entropy to Improve the Activity and Thermostability
	P-B-BS-7a	Anita Girelli	Resolving Hydrodynamic Function of Proteins in Crowded Solutions Through Coherent X-Ray Scattering with XFELs

Symposia	Abstract No.	Author's name	Title
Confinement & Thin Films	P-LD-CF-5b	Ryunosuke Yonemori	Molecular dynamics study on 2D aggregate structures of perfluoroalkyl oligomers
	P-LD-CF-6b	Sebastian Kloth	Molecular Dynamics Simulations of Confined Liquids with Inhomogeneous Structures
	P-LD-CF-7b	Mar í a Teresa Viciosa	Investigating the surface effects on drug loaded mesoporous silica nanoparticles
	P-LD-CF-8b	Menghan ZHANG	Dynamics of amorphous and crystalline methane hydrates
	P-LD-CF-9b	Tae Hoon Seo	Growth of GaN film on nanoporous-ordered GaN/sapphire template for high power semiconductor device
Ion Conduction in Glasses	P-TR-IC-1b	Masahiro Ikeda	Non-Arrhenius Ionic Conductivity in AgI-based Superionic Conducting Glasses in a Wide Temperature Range
	P-TR-IC-2b	Masaru Aniya	Ionic Conductivity, Fragility and Cooperativity in Ion Conducting Polymers: A Study based on the BSCNF Model
	P-TR-IC-3b	Yong Suk Yang	Ionic transport mechanism in lithium iron phosphate glasses
Fast & Slow β Relaxations	P-R-BR-1b	Bing Wang	Low-temperature relaxation peak in a model metallic glass
Physical Aging	P-R-PA-1b	Tongyu	Unexpected non-monotonic changing in the heterogeneity of glasses during annealing
	P-R-PA-2b	Federico Caporaletti	Experimental evidence of the Slow Arrhenius Process in small molecules
	P-R-PA-3b	Sneha Srinivasan	Role of molecular packing and confinement in glassy state properties of polymer brush films
Advanced Light & Neutron Scattering	P-TQ-LN-1b	Yuko Amo	On the breakdown of the coincidence between 1 st - and 2 nd - order optical susceptibility below THz region
	P-TQ-LN-2b	Tatsuro Oda	Status of Neutron Spin Echo Spectrometers in Japan
Information Science & Machine Learning	P-TQ-iM-1b	Guoqiang Zhou	Intelligent polymer
High Pressure Studies	P-TQ-HP-1b	Yahia Chergui	A Comparative Study of the Chemical Bonds of ZnO Rocksalt and Wurtzite types Under Extended Pressure and Temperature; a Molecular Dynamics prediction