



Posters List

Poster number Symposia 2 - Dynamic Heterogeneity & Glass Transition

- 1 Comparison between one-time correlation function and two-time correlation function to measure the relaxation time - **Katsuaki Nakazawa**
- 2 Chain-length-dependent dynamic heterogeneities in polymer glasses - **Peter Olmsted**
- 3 Do Structural and Conductivity Relaxations of CKN Conform to Coupling Model Predictions and Universality? - **Yanhui Zhang**

Poster number Symposia 3 - Theory & Simulations of Glasses & Glass Transition

- 4 Light-induced caging in colloidal suspension - **Abolfazl Ahmadi Rahmat**
- 5 Swap Monte Carlo for diatomic molecules - **Lorenzo Costigliola**
- 6 Relating Thermodynamics and Dynamics in a Trap-like Model of Supercooled Liquids - **Simeon Georg Kellers**

Poster number Symposia 4 - Ultrastable Glasses

- 7 Thermal Stability of Organic Semiconductor Thin Film Glasses by Local Changes in Spontaneous Orientation Polarization - **Marta Ruiz Ruiz**
- 8 Johari-Goldstein (JG) β -relaxation in the stable glass - **Ujjwal Kumar Nandi**
- 9 High kinetic stability and high density of Ir(ppy)₃ doped organic semiconductor glasses - **Yejung Lee**

Poster number Symposia 5 - Local Order in Liquids & Glasses

- 10 Local Structure, Voronoi Tessellation and Dynamics in a Supercooled Dipolar Liquid- **Gemma Sesé**



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Symposia 10 - Metallic Super-cooled Liquids & Glasses

- 11** Lunar glasses unveil the origins of lunar metallic iron - **Chao Chang**
- 12** Metallic Glasses as Advanced Catalysts for CO Oxidation - **Maahin Mirzay Shahim**
- 13** Design and Characterization of Ti-Based Metallic Glass ribbons with Tailored Mechanical and Antibacterial Properties - **Neda Shojaei**
- 14** Study on the phase transformation mechanisms of ultra-fast heating metallic glasses and preparation of composites - **Xiaoliang Han**
- 15** Influence of configuration entropy and cocktail effect on the corrosion resistance of Pd-based Metallic Glasses - **Yating Zhou**

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Symposia 11 - Physical Aging

- 16** Physical aging of a biodegradable alicyclic polymer: poly (pentamethylene trans-1,4-cyclohexanedicarboxylate) - **Marouane Mejres**
- 17** Dynamic Processes and Thermal Properties of Amorphous Polymers - **Goda Akira**

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Symposia 12 - Rejuvenated Glasses, Methods & Properties

- 18** Physical aging of a biodegradable alicyclic polymer: poly (pentamethylene trans-1,4-cyclohexanedicarboxylate) - **Marouane Mejres**

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Symposia 15 - High-Pressure Effects on Liquids & Glasses

- 19** High-pressure-induced structural changes in liquid active pharmaceutical ingredients - **Anna Janowska**



Poster number **Symposia 16 - Water & Ice Anomaly**

- 20** NMR-Study on the Dynamics of Ice in Bulk and Confinement - **Finn Wolter**
- 21** Three step growth of water ice prepared by vapor-deposition - **Reo Sato**

Poster number **Symposia 17 - Water, Alcohols & Hydrogen Bonded Systems**

- 22** Molecular Dynamics Investigation of Specific Interactions in 3-Phenyl-1-propanal - **Anjana Krishna Sudhakaran Nair Valsala Kumari**
- 23** Water dynamics in protein-water mixtures at subzero temperatures using dielectric spectroscopy - **Kahori Furuhashi**
- 24** Intermolecular bonds connecting structure and dynamics - **Martin Tress**
- 25** AB INITIO MOLECULAR DYNAMICS SIMULATIONS OF OXIDE/WATER INTERFACES - **Nargiz Damirova**
- 26** Dielectric properties and dynamics of water adsorbed in crosslinked polymer Sephadex G-25 - **Noriko Yamamuro**
- 27** Dielectric relaxations of two ? processes, multiple ice, and uncrystallized water in aqueous fructose solutions - **Shoma Higuchi**
- 28** Dielectric Relaxation of Ice in Partially Crystallized Sucrose-Water Mixture - **Yosuke Oki**

Poster number **Symposia 18 - Ionic Liquids, Ionic Polymers &**

- 29** Ion Transport and Polymer Dynamics in Simple and Polymerized Ionic Liquids - **Arshid Ahmad**
- 30** Impact of Anion Structure on Charge Transport in DBU-Based Protic Ionic Liquids - **Li Niu**



Poster number Symposia 18 - Ionic Liquids, Ionic Polymers & Ionic Plastic Crystals

- 31** How Hydrogen Bond Donor Acceptor Ratio and Water Content Affect the Microstructure and Dynamics of N,N-diisooctylacetamide and Decanol Based Hydrophobic Deep Eutectic Solvent - **Mrityunjay Kumar Jha**
- 32** Dynamics and Charge Transport in PVDF-HFP/Protic Ionic Liquid (PIL) Membranes: The Effect of PIL Concentration - **Runhong Wei**

Poster number Symposia 19 - Ionic Liquids, Ionic Polymers &

- 33** Fragility of 2-halogenated thiophene within mesoporous silica - **Hiroki Fujimori**

Poster number Symposia 20 - Liquid Crystals and Plastic Crystals

- 34** Insight into the nature and kinetics of phase transitions in two adamantane derivatives - **Ewa Ozimina-Kaminska**
- 35** Reorientational dynamics and transport properties of Lithium salts in plastic-crystal succinonitrile - **Manel Canales**
- 36** Orientational orders and molecular dynamics in a liquid-crystalline phase of N - (2 - hydroxy- 4 - methoxybenzylidene) - 4 - n - butylaniline studied by high-resolution ¹³C NMR - **Mariko Noguchi**
- 37** Rich relaxation dynamics in memantine a Hydrogen-bonded Adamantane Derivative forming Orientationally Disordered Crystals - **Paulina Jesionek-Ratka**

Poster number Symposia 21 - Polymer Dynamics, Viscoelasticity & Rheology

- 37** Modeling and characterization of crystallization kinetics of polymers for packaging applications by means of numerical simulations and fast differential scanning calorimetry - **Aysa Ghahramaniazad**



Poster number **Symposia 21 - Polymer Dynamics, Viscoelasticity & Rheology**

- 39** Slow liquid dynamics releases mechanical stress in polymers - **Federico Caporaletti**
- 40** Study of vitrimeric thiol-ene elastomers and their effects on relaxation - **Frida Román**
- 41** Hierarchical Dynamics of Polymer/Molecular Nanoparticles Hybrid Systems - **Huiming Xiong**
- 42** Thermal and dynamical properties of hydrogen-bonded P2VP/P4VPh polymer blends - **Kota Okumura**
- 43** Dynamical properties of poly(lactic acid) stereoisomers - **Petra Bacova**
- 44** Development of a lactate release system using electroresponsive electrospun fibers for applications in biomedicine and personalized therapies - **Pilar Adriana Haro Gutierrez**
- 45** Investigation of Relaxation Dynamics of Stretched Rubber for Understanding the Mechanical Properties - **Seiya Mayuzumi**

Poster number **Symposia 22 - Polymer Nanocomposites & MOF**

- 46** Advanced topographic and nano-electrical characterization of 2D materials and composites with atomic force microscope and optical profilometry - **Nicolas Francisco Martinez cuadrado**

Poster number **Symposia 24 - Gels & Networks**

- 47** Electrically conductive (HA-PEG and Cellulose)/PEDOT: PSS hydrogels for nerve regeneration - **Alvaro Hidalgo Yerga**
- 48** Phase Transitions and Mechanical Properties of P(C?EG?) Multiblock Copolymer Hydrogels Across Concentration and Temperature - **Tulika Sharma**



Poster number Symposia 28 - Yielding & Avalanches in Disordered Systems

- 49** Acoustic emission in a flexocaloric single crystal - **Emma Valdés**

Poster number Symposia 29 - Amorphous Pharmaceuticals

- 50** Fabrication of Indium Tin Oxide-based Electrospun Nanocomposite for Stimuli-Responsive Drug Delivery - **Aaron Kuriakose Prakash**
- 51** Screening of Co-Amorphous and Co-Crystalline Systems for Enhanced Oral Drug Delivery - **Aidyn Taishybay**
- 52** 3D-printing of bioresorbable paclitaxel eluting coronary artery stents - **Aigerim Dyussupova**
- 53** Stability of proteins and cells in extreme conditions studied by neutron scattering - **Akanksha Shahi**
- 54** Strain-Dependent Damping Behavior in Magnetorheological Elastomers with Periodic Cavities - **Anna Bandoni**
- 55** Preparation and Characterization of Devices for Nerve Regeneration - **Brenda Alcibar Velasco**
- 56** Polymeric Micelles and Dendritic Nanogels for Targeted Drug Delivery in Glioblastoma and Breast Cancer - **Ceren Gungor**
- 57** Exploring the effect of trehalose on thymosin- α 1 behavior using molecular dynamics simulation - **Elizaveta Gigidze**
- 58** Multi-material Volumetric 3D-Printing for Advanced Biomedical Applications - **Fátima Itzel Trejo Arroyo**
- 59** Effect of pharmaceutical excipients in the formation and stability of S-Ibuprofen: Nicotinamide cocrystals under milling - **Fernando Gushque**
- 60** Investigation of Glass-Transition Dynamics and Crystallization Behavior of Paracetamol in the Bulk and Under Nanopore Confinement - **Ibrahim Festuq**



Poster number Symposia 29 - Amorphous Pharmaceuticals

- 61** Hydrophilic and Amphiphilic Macromolecules as Modulators of the Physical Stability and Bioavailability of PiriBEDIL - **Luiza Orszulak**
- 62** Stability of biopharmaceuticals during freeze-drying: SANS investigation of protein-protein interaction and agglomeration in freeze-dried biopharmaceuticals - **Mario Gonzalez Vasquez**
- 63** Production and Study of Drug-loaded Polymeric Systems for 3D printing of Personalized Solid Oral Dosage Forms - **Oscar Patricio Yanchatuña Aguayo**
- 64** The impact of the molecular weight and dispersity of polyvinylpyrrolidone (PVP) on the behaviour of piriBEDIL within binary mixtures - **Patrick Ezra Jugu**
- 65** In situ Raman spectroscopy monitoring the crystallization of Carbamazepine and a carboxylic acid coformer in solvent evaporation assays - **Ruben Alejandro Ortiz Francisco**
- 66** Elucidating the Nucleation Kinetics of Biomolecular Condensates via Temperature Cycling - **Sandra Navarro Pacheco**
- 67** Optimisation of Alginate Capsules to Generate a Hematopoietic Stem Cell Bone Marrow Niche - **Shermeen Tanveer**
- 68** Deciphering solvent impact on paracetamol polymorphism via liquid antisolvent crystallization and molecular dynamics simulations - **Solomon Aryee**
- 69** Uncovering Non-Classical Nucleation Pathways in Supersaturated Lennard-Jones Vapor Using Transition Path Sampling - **Srinivasa Ranganadha Raghavendra Nomula**
- 70** Eutectic mixture formation and relaxation dynamics of coamorphous mixtures of two antifungal imidazole drugs - **Wahi Noor**
- 71** Development of a complex in-vitro system to test antidiabetic drugs - **Zabreen Mustafa**



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Symposia 33 - Confinement & Thin Films

- 72** Molecular-Weight and Film-Thickness Dependence of Thickness Relaxation in Thin Polystyrene Films - **Isao Takahashi**
- 73** Nanoscale Dynamics Governing Bulk Relaxation in swelling of poly-vinylpyrrolidone thin films - **Jotypriya Sarkar**

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Symposia 34 - Surfactant/Membrane Systems

- 74** Interactions of an X-shaped peptide with the bacterial LPS liposomes - **Magdalena Wlodek**

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Symposia 35 - Ionic conduction mechanisms and dynamics

- 75** Local and Diffusive Dynamics of Interlayer Lithium Ions and Water in Synthetic Fluorohectorites: ¹H, ²H and ⁷Li NMR-Study - **Jepsinraj Kakkuzhiyulla Parambath**
- 76** Polymer-nano-tufts: A hairy story of limited conductivity - **Martin Tress**
- 77** Discovery of novel Ba₂Y₂CuPtO₈-type proton conductors - **Nozomi Aoki**

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Symposia 36 - Surfactant/Membrane Systems

- 78** Fluorescence microscopy techniques to investigate crowded dynamics in soft and bio-matter - **Marco Labella**

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Symposia 37 - Linear & Nonlinear Dielectric Dynamics

- 79** Segmental dynamics and local motions in disordered random co-polymers - **Stavros Drakopoulos**



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- 80** On Excitations, β relaxation and transport in Molecular Liquids -
Marcus Cicerone

**Poster
number** **Symposia 39 - Crystallization vs Vitrification**

- 81** Predicting the crystal growth rate at the surface of molecular glasses -
Federico Caporaletti

**Poster
number** **Symposia 40 - Advanced Light & Neutron Scattering**

- 82** Simultaneous Measurement of XPCS and NMR for Studying the
Dynamics of the Epoxy Resin Curing Process - **Jingmin Tang**
- 83** Dynamics of Bentonite Swelling during Water Ingress - **Robert Bauer**

**Poster
number** **Symposia 43 - Fast and ultrafast structural dynamics**

- 84** Effects of Photoexcitation on GeTe probed by Machine Learning
Molecular Dynamics - **Francesco Pecorella**

**Poster
number** **Symposia 43 - Materials for thermal energy storage**

- 85** Effects of synthesis conditions on the structural and water sorption
capacity of (Si/Me-) AlPO-5 - **Ann Jini Mathews**
- 86** Spectroscopy study of dynamic disorder in two-dimensional long
alkylammonium perovskites - **Clàudia Pérez Junyent**
- 87** Polymer-Assisted Stabilization of Plastic Crystals as Alternative Solid-
Solid Phase Change Materials for Thermal Energy Storage - **Mounir
Akoudad**