

Droplets 2019

Monday Poster Session

P1	Natalie	Bristol University	Aerosols	Exploring the dissolution lag experienced by dried particles on inhalation in the aerosol phase using single particle measurements
P2	Tomonaolnoue	Gakushuin University	Aerosols	Development of vibrating pendant-drop Raman spectrometer
P3	Lara Lalemi	University of Bristol	Aerosols	Investigations of the viscosity of atmospherically relevant organic particles
P4	Henry Oswin	University of Bristol	Aerosols	Investigating bacterial loss of viability in aerosols
P5	Prashant Agrawal	Northumbria University	Emulsions/ Multiphase Flow	Continuous operation of Leidenfrost rotors on turbine-inspired substrates
P6	Fuqiang Chu	Beihang University	Emulsions/ Multiphase Flow	Droplet re-icing characteristics on solid surfaces
P7	Oscar Enríquez	Carlos III University of Madrid	Emulsions/ Multiphase Flow	The spontaneous mixing and breaking of a water drop in anise-oil (and some ethanol)
P8	Qingqing Gu	University of Strathclyde	Emulsions/ Multiphase Flow	Pore-scale study of counter-current imbibition in strongly water-wet fractured porous media using lattice Boltzmann method
P9	Matthew T Parnell	Northumbria University	Emulsions/ Multiphase Flow	Optimising Leidenfrost herringbone ratchet propulsion with numerical simulations
P10	Mostafa Shojaeian	TU Darmstadt	Emulsions/ Multiphase Flow	On-demand production of femtolitre droplets in microchannels using electric field pulses
P11	Alexander Vikhansky	Siemens PLM Software	Emulsions/ Multiphase Flow	Combined CFD-population balance modelling of emulsion formation in turbulent flows
P12	Cheng Zhang	CINaM (Centre Interdisciplinaire de Nanosciences de Marseille)	Emulsions/ Multiphase Flow	Development of a microfluidic method for preparing monodispersed micro-particles with controllable sizes and mechanical properties
P13	Justice Archer	University of Bristol	Evaporation	Drying kinetics and particle formation from colloidal microdroplets suspension
P14	Lev Barash	Landau Institute for Theoretical Physics	Evaporation	Fluid flow structures in an evaporating droplet depending on the droplet geometry and properties of liquid and substrate

P15	MyrtheBruning	Physics of Fluids, University of Twente	Evaporation	Turning drops into bubbles: cavitation by diffusion through an elastic network
P16	YuhongChen	The University of Edinburgh	Evaporation	Influence of Capillary Origami on the Evaporation of Sessile Drops on Soft Membranes
P17	Hannah-May D'Ambrosio	University of Strathclyde	Evaporation	Evaporation of a sessile droplet in a shallow well
P18	Leonid Dombrovskiy	Kingston University London	Evaporation	A model for evaporation and solidification of single droplets of sea water in a mist curtain used for shielding intense thermal radiation
P19	Alexandra Gavrilina	Landau Institute for Theoretical Physics	Evaporation	Studying Hydrothermal Waves in an Evaporating Sessile Drop by Computer Simulation
P20	Jack Goodall	Durham University	Evaporation	Supersaturation in Inkjet Printed Solutions
P21	Lama Hamadeh	Nottingham Trent University	Evaporation	Power spectrum and machine learning analysis applied to dried blood droplets
P23	Wojciech Kwiecinski	University of Twente	Evaporation	Evaporation of dilute sodium dodecyl sulphate droplets on a hydrophobic substrate
P24	Cecile Lalanne	CEA	Evaporation	Evaporation of saline sessile droplets: numerical analysis with a VOF method.
P25	Lisong Yang	Durham University	Evaporation	Marangoni-enhanced spreading and droplet drying
P26	Jiaming Zhang	University of Twente	Evaporation	Shrinkage of microdroplets in confined and sparingly miscible media
P27	Justine Parmentier	University of Liège	Impact	A drop does not fall on a straight line: a rationale for the width of stalagmites
P28	Miguel Quetzeri-Santiago	Queen Mary University of London	Impact	The role of the dynamic contact angle on splashing
P30	Nilamani Sahoo	Indian Institute of Technology Ropar	Impact	Spreading dynamics of ferrofluid drops post-impact on hydrophilic surface
P31	Yuansi Tian	KAUST	Impact	Singular jets from the collapse of craters at a pool surface
P32	Fabian Wadsworth	Durham University	Impact	Melting, rounding, bouncing, sticking: The dynamics of magma droplets in volcanic eruptions

P33	Masao Watanabe	Hokkaido University	Impact	Drop impact on a fast-moving rigid solid plate projected by a coil gun in a vacuum chamber
P34	Hao Wu	University of Twente	Impact	Harvesting energy from water droplet based on charge trapping at hydrophobic polymer surfaces
P35	Ziqiang Yang	King Abdullah University of Science and Technology	Impact	Bubble entrapment and fine jetting during impact of immiscible drop on a pool
P36	Rameez Iqbal	Indian Institute of Technology Madras	Microfluidics and acoustofluidics	Evaporation free self-transportation and manipulation of aqueous droplets over an oil-laden diverging groove
P37	Peter Lebedev-Stepanov	Photochemistry Center of the FSRC «Crystallography and Photonics»	Microfluidics and acoustofluidics	Some novel analytical solutions in microfluidics of sessile evaporating droplet: microfluidics, particle-flow interaction, evaporation
P38	Saksham Sharma	University of Cambridge	Microfluidics and acoustofluidics	Oscillating Sessile Droplet Tensiometry
P39	Yi Sui	Queen Mary University of London	Microfluidics and acoustofluidics	Path selection of a spherical capsule in a microfluidic branched channel
P40	Ran Tao	Northumbria University	Microfluidics and acoustofluidics	Digital microfluidics on flexible surface acoustic wave devices
P41	Yilin Wang	Durham University	Microfluidics and acoustofluidics	Fabrication of Monolayer Polymeric Particles by Inkjet Printing of Uniform Emulsion Produced by Microfluidics
P42	Dan Daniel	Institute of Materials Research and Engineering	Textured, patterned, smart surfaces	Mapping wetting variations on surfaces with piconewton force and micrometric lateral resolutions
P43	Alireza Gholijani	TU Darmstadt	Textured, patterned, smart surfaces	Experimental investigation of hydrodynamics and heat transport during drop impact on a heated wall covered with electrospun nanofiber mats in a saturated vapour atmosphere
P44	Maria Olga Kokornaczyk	Society for Cancer Research	Textured, patterned, smart surfaces	Investigation of patterns from desiccated droplets of pharmaceutical preparations to study the impact of succession during dilution
P45	Manish Kumar	Indian Institute of Technology Bombay	Textured, patterned, smart surfaces	Sliding behaviour of a droplet on surfaces having micro-grooves
P46	Launay Gaby	Northumbria University	Textured, patterned, smart surfaces	Self-propelled droplet transport on liquid surfaces
P47	Peter Lebedev-Stepanov	Photochemistry Center of the FSRC «Crystallography and Photonics»	Textured, patterned, smart surfaces	Morphological analysis of images of dried droplets of saliva for determination the degree of endogenous intoxication
P48	yingzhiliu	Northumbria university	Textured, patterned, smart surfaces	Transient snapping gel structure under geometrical confinements
P49	Rongye Zheng	Fuzhou University	Textured, patterned, smart surfaces	Simulation of droplet spreading on wettability confined diverging tracks based on a lattice Boltzmann multiphase model for fluid with high-density ratio

P51	Solomon Melides	University of Surrey	Textured, patterned, smart surfaces	Spreading dynamics of water on soluble thin films patterned with hydrophobic droplets
P52	Daniel Orejon	University of Edinburgh	Textured, patterned, smart surfaces	Hierarchical Lubricant Infused Surfaces with Enhanced Droplet Mobility
P53	Dominika Zabiegaj	Northumbria University	Textured, patterned, smart surfaces	Materials based on polymer-particle-oil emulsions: droplet stabilisation and evolution
P54	Hongyu Zhao	The University of Edinburgh	Textured, patterned, smart surfaces	Droplet manipulation on microgrooved surfaces with structural contrast
P55	Alexandros Askounis	University of East Anglia	Wetting	How drops move on a wettability contrast
P56	Hernán Barrio-Zhang	Northumbria University	Wetting	Contact Line Dynamics and Hysteresis Measurements on SOCAL Surfaces
P57	Imdad Uddin Chowdhury	IIT Madras	Wetting	Shape locking phenomena during the droplet transport on different energy gradient surfaces
P58	Kristina Davitt	Ecole Normale Supérieure de Paris	Wetting	Controlled nanoscale defects to study wetting hysteresis and dynamics
P59	A. M. J. Edwards	Nottingham Trent University	Wetting	Liquid-in-Liquid Dewetting Dynamics
P60	Pauline Galy	École Normale Supérieure de Paris	Wetting	Self-propelled water drops on bare glass substrates
P61	Sarah Goodband	Durham University	Wetting	Investigating the Ageing of Model Liquid Infused Porous Surfaces
P62	Danny Groves	Cardiff University	Wetting	Droplet dynamics on chemically heterogeneous surfaces with mass transfer
P63	Frieder Mugele	University of Twente	Wetting	Wetting of mineral surfaces by fatty-acid laden oil and brine: carbonate effect at elevated temperature
P65	Saeedeh Imani Moqadam	University of Bremen	Microfluidics and acoustofluidics	Cooling Rate Model for Single Metal Droplets Generated via Drop-on-Demand Droplet Generator
P66	Jing Shi	Durham University	Evaporation	Drying of aqueous droplets with nonionic surfactants C_nE_m
P67	Sunil Kumar Saroj	IIT Kanpur, India	Evaporation	Evaporation of Cu-Al LDH nanofluid droplet for electronic cooling