List of posters – Monday, Sept. 11, 2017

Rapid-fire short communications, 12:00 to 12:30

#		
	Basic principles of electrokinetics	
1	Thomas Palberg	Density dependence of the electrophoretic mobility measured over a wide range of particle concentrations
2	Igor V. Shevchenko	Influence of geoelectric field on chemical reactivity of water
3	Mathias Dietzel	Electrokinetic transport in narrow channels with non-equilibrium electric double layers
4	Masashi Iwata	Electrokinetic aspects of mechanical expression
5	Paloma Arenas-Guerrero	Electro-orientation of metallic particles: the case of silver nanowires
6	Yingjia Li	Investigation of low-voltage electrowetting on multilayer-dielectrics with impedance spectroscopy
7	Jürgen Fuhrmann	Models and numerical methods for ionic mixtures with volume constraints
8	Mohd Zaidi Jaafar	Monitoring water alternate gas process using streaming potential
9	Pramoda Kumar	Electroconvective instability in concentration polarization: An experimental perspective
	Molecular theories	
10	David Sean	Investigating the electrophoretic mobility of weak polyelectrolytes via coarse-grained simulations
11	Vladimir Lobaskin	Diffusive-convective transition in simple driven electrolytes

Further posters

#		
	Basic principles of electrokinetics	
12	Yu-You Chu	Sedimentation of a pH-regulated nanoparticle in a generalized gravitational field
13	Yusuke Sato	Charging and aggregation of cellulose nanofiber: experiments and modeling
14	Inhee Cho	Shear flow assisted characterization of extended space charge layer
15	Seoyun Sohn	Overlimiting conductance under 3-dimensional constriction
16	Keon Huh, Jung A Lee	Ion concentration polarization on dielectrics: High Dukhin number limit
17	Petr Vágner	Thermodynamic study of YSZ spectroscopy
18	Yu-Min Chen	Influence of salt valence on the rectification behavior of nanofluidic diodes
19	Antonio Ramos	Electrokinetic manipulation of semiconductor nanowires
20	Nataliya Mishchuk	Electric double layer of hydrophobic particles
21	~~Aneta Michna~~	~~Influence of poly(allylamine hydrochloride) (PAH) macromolecules..~~
NEW	*Replaced by Xiao Xu*	*Effective charge and surface potential of dendritic polyglycerol sulfate: A multiscale simulation study*
22	~~Maria Morga~~	~~Electrokinetic studies of polyelectrolyte/ polypeptides monolayers on mica~~
NEW	*Replaced by Ognen Pop-Georgievski*	*Impact of bioactive peptide motifs on the molecular structure, charging and non-fouling properties of poly(ethylene oxide) brushes*
23	Nicolas Rivas	Electrokinetic simulations of drop deformation and breakup in an electric field

List of posters – Tuesday, Sept. 12, 2017

Rapid-fire short communications, 11:50 to 12:20

#	**Electrokinetic assembly**	
24	Ran Niu	Active and passive colloidal molecules from electro-kinetic self-assembly
25	Yasushige Mori	Size effect of titanium dioxide nanoparticles on deposit behavior prepared by electrophoretic phenomena
26	Sinwook Park	Dynamic control of the concentration-polarization layer in a permselective membrane-microchannel system using electro-thermal force
	Ion-specific effects in materials sciences	
27	Mohd Zaidi Jaafar	Streaming potential measurement during alkaline-surfactant-polymer progression in porous media
	Ionic transport in polyelectrolyte complex materials	
28	David Vehlow	Loading and releasing charged therapeutic drugs at polyelectrolyte complex nanoparticles for bone healing
29	María Luisa Jiménez	Experimental evaluation of the effect of solution temperature on salinity gradient energy
30	Silvia Ahualli	Soft carbon nanoparticles for desalination and energy production
31	Myung-Suk Chun	Micro energy conversion by electrokinetic flows of polyelectrolyte non-Newtonian fluid in microchannels

Further posters

#	**Electrokinetic assembly**	
32	Eva-Maria Laux	Molecular AC electrokinetics using interdigitated electrodes
33	Ralph Hölzel	AC electrokinetic immobilisation of nanoparticles and proteins
34	Ran Niu	Self assembled modular micro-swimmers: Speed and directional control
35	Thomas Palberg	Electro-osmotic pumping for structured coatings
36	Atsushi Yamaguchi	The maximum adsorption mass of lysozymes to silica particles: The role of electrostatic interaction
	Ion-specific effects in materials sciences	
37	Tajana Preocanin	Quartz/aqueous electrolyte solution interface: molecular dynamic simulation and surface potential measurements
38	Motoyoshi Kobayashi	Charge reversal of latex particles: effect of trivalent and hydrophobic ions
39	Takuya Sugimoto	Homo- and hetero-aggregation stability between oppositely-charged particles with charge reversal
40	Chanbum Park	Molecular simulations of electrolyte structure and dynamics in lithium-sulfur battery solvents
41	Anja Caspari	Surface properties of carbon nanoparticles
42	Subramanian Ramanathan	Graphene oxide-cobalt-imidazole modified glassy carbon electrode for electrochemical detection of trace amounts of arsenic in chicken
	Advanced instrumentation and methods	
43	Kazuho Nakamura	Application of electrokinetic phenomena in membrane separation processes
44	Larysa L. Lysenko	Intensification of electroosmotic dewatering of clay dispersions by means of charged porous additives
	Electrokinetics in bioanalytical applications and bioseparation	
45	Sandra Stanke	AC electrical functionalization of nanoelectrode arrays for influenza virus detection