

Technical Program
8th International Electrokinetics Conference (ELKIN 2008)
May 18 – 23
Santa Fe, New Mexico – USA

Posters: Monday, May 19 (8:00 PM) - Thursday, May 22 (8:00 PM)

Sowmitri Tarimala (Chair)

Alternate Co-Chairs: Richard Beckham, Hakim Boukhalfa, Hari Viswanathan, Kevin Jakubenas

- P1 Stability of the Paraffine Wax Nano-Colloidal Dispersion for Papermaking
Lubomír Lapčík, Jr., Barbora Lapčíková, **Vera Lucia Guimarães Abreu**
- P2 Model Switchable Hydrophobic/Hydrophilic surfaces
Brett P. Andrzejewski, Sergio Mendez, Linnea K. Ista, Qiang Fu, Gabriel P. Lopez
- P3 Excluded Volume Effect on the AC Electrokinetic Properties of Colloidal Particles
Miguel J. Aranda-Rascón, J. J. López-García, J. Horno
- P4 Investigation of Electroosmotic Flows in Systems of Similar and Dissimilar Ion-Exchange Beads
Nataliya O. Barinova and Nataliya A. Mishchuk
- P5 Looking Inside the Dynamic Non-Equilibrium Double Layer of a Spherical Particle in a Concentrated Salt-free Colloidal Suspension
Félix Carrique, Emilio Ruiz-Reina, Francisco J. Arroyo, María Luisa Jiménez-Olivares, and Ángel V. Delgado
- P6 The Flocculation Behavior of Brownian Particles under the Strong Brownian/Weak Gravity Condition
You-Im Chang
- P7 Zeta Potential of SiO₂ Suspensions in the Presence of Phospholipide DPPC and Lipase or Phospholipase A₂ Enzymes
Agnieszka Ewa Wiacek, **Lucyna Holysz** and Emil Chibowski
- P8 Electro-Kinetic Consistency of Zeta Potentials obtained from Dynamic Light Scattering and Micro-Electrophoresis Measurements on Latex Particles
Robert O. Jack and Carlos A. Rega
- P9 Determination of Protein Valence from Electro-Kinetic Transport Properties
Jason Corbett, **Robert O. Jack**, and Carlos A. Rega
- P10 Zeta Potential of Mica/DPPC Phospholipid (DPPC) in the Presence of Enzyme Phospholipase A₂ (PLA₂)
Malgorzata Jurak and Emil Chibowski
- Kinetics of Turbulent Heterocoagulation between Oppositely Charged Particles
- P11 **Motoyoshi Kobayashi** and Yuji Watanabe
- P12 Numerical Prediction of the Rate of Cluster Coagulation using Hydrodynamic Radius determined from Brownian Motion and Collision Radius by Off-Lattice Simulation
Yasuyuki Kusaka and Yasuhisa Adachi
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- P13 Effect of Talc Filler Content on Poly(Propylene) Composite Mechanical Properties
Lubomir Lapcik Jr., Pavlina Jindrova, Barbora Lapcikova
- P14 The Zeta Potential of Kaolin Suspensions Measured by Electrophoresis and Electroacoustics
Barbora Lapcikova, Lubomir Lapcik Jr., Richard W. Greenwood, K. Waters
- P15 Ion Size Effect on the Electrophoretic Mobility of Colloidal Particles
Jose J. López-García, M.J. Aranda-Rascón, J. Horno.
- P16 Electrokinetic Soil Decontamination Using Hydrodynamic pH Regulation
Larisa L. Lysenko and Nataliya A.Mishchuk
- P17 Non-destructive Streaming Potential Measurement of Flat Surfaces – New Insights in the Influence of the Reference Sample
Thomas Luxbacher
- P18 Electrokinetic Behaviour of Composite Lipidic Vesicles Prepared with Gold Nanoparticles and Biopolymers
Sergio Madrigal-Carballo, J. Heintz, J. D. Reed, A. O. Vila, and F. Molina
- P19 Utilizing Microfluidic Flow-Focusing Devices to Synthesize Monodisperse, Nanostructured Silica Particles
Sergio Mendez, Nick Carroll, and Dimitar Petsev
- P20 Enhanced Pearl-Chain Formation by Electrokinetic Interaction with Bottom Surface of Vessel
Satoshi Nishimura, Hideo Matsumura, Katsunori Kosuge, and Tomohiko Yamaguchi
- P21 Electromigration Current Rectification in a Cylindrical Nanopore
J.Y. Junga, P. Joshib, T. Thorntonb, and **Jonathan D. Posner**
- P22 Experiments on Travelling-Wave Electro-Osmosis: Effect of Conductivity
Hukun Yang, Hongyuan Jiang, **Antonio Ramos**, Pablo García-Sánchez
- P23 Streaming Potential Measurements at Elevated Temperature and Pressure
Philip M. Reppert and F. Dale Morgan
- P24 Deposition of BiVO₄ Colloidal Particles on Polycarbonate Substrates followed by the Impinging-Jet Method
Petr Smolka and Lubomír Lapčík Jr.
- P25 Measurement of Dielectric Permittivity and Conductivity Spectra of a Thin Manganite Film
Monica Tirado, M. Villafuerte, S. Heluani, and C. Grosse
- P26 Charging of Single Crystalline Diamond in Aqueous Electrolytes
Jose A. Garrido, Andreas Härtl, Stefan Novy, **Ralf Zimmermann**, Carsten Werner, Dominik Horinek, Roland R. Netz, and Martin Stutzmann
- P27 Physical Adsorption of Hydroxide Ions at Oxide Electrolyte Interfaces?
Johannes Lützenkirchen, **Ralf Zimmermann**, Tajana Preocanin, André Filby, Thomas Rabung, Dieter Schild, Markus Plaschke, Horst Geckeis, Carsten Werner
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