

Poster Program

Sunday, May 8th 2011, 18:30-20:00

Poster Session 1

Topics: Biomaterials, biomimetics and nanomedicines
Nanocatalysis and reaction control

- [P1.01] **The effect of polyvinyl alcohol additive and sintering temperature on hydroxyapatite coating on 316L stainless steel by dip coating method**
S. Dedeoglu*, S. Altintas, *Bogazici University, Turkey*
- [P1.02] **Immobilization of uricase in bioinspired Langmuir-Blodgett films of stearic acid for uric acid sensing**
N.C.M. Zanon, L. Caseli*, *Universidade Federal de Sao Paulo, Brazil*
- [P1.03] **Characterisation of nanomaterials**
E. Gubbins*¹, D. Brown³, V. Stone¹, M. Monopoli², I. Lynch², ¹*Heriot-Watt University, UK*, ²*University College Dublin, Ireland*, ³*Napier University, UK*
- [P1.04] **Development of bioactive and corrosion resistant organic- inorganic hybrid sol-gel coatings on Ti-6Al-4V surfaces**
A.A. El hadad*¹, A. Jiménez-Morales², V. Barranco³, E. Peón⁴, J.C. Galván¹, ¹*Centro Nacional de Investigaciones Metalúrgicas (CSIC), Spain*, ²*Universidad Carlos III de Madrid, Spain*, ³*Instituto de Ciencia de Materiales de Madrid, Spain*, ⁴*Centro de Biomateriales, Universidad de La Habana, Cuba*
- [P1.05] **Sol gel derived hybrid materials based on gamma-methacryloxypropyltrimethoxysilane and tetramethyl orthosilicate: Kinetic studies**
A.A. El hadad*¹, D. Carbonell², A. Jiménez-Morales², V. Barranco³, B. Casal¹, J.C. Galván¹, ¹*Centro Nacional de Investigaciones Metalúrgicas, Spain*, ²*Universidad Carlos III de Madrid, Spain*, ³*Instituto de Ciencia de Materiales de Madrid (CSIC), Spain*
- [P1.06] **Experimental design approach in the development of optimized nanoparticulate systems for oral anti-diabetic drugs**
J.F. Figueiro*¹, A.P. Nayak², E.B. Souto^{1,3}, ¹*Fernando Pessoa University, Portugal*, ²*Kuvempu University, India*, ³*Institute of Biotechnology and Bioengineering, Portugal*
- [P1.07] **Collagen based hybrid hydrogels films**
M. Sahiner*¹, S. Butun², B.O. Bitlisli¹, ¹*Ege University, Turkey*, ²*Canakkale Onsekiz Mart University, Turkey*
- [P1.08] **Investigating the structure-function relationship of mixed phospholipid liposomes for potential use in drug delivery systems: Effect of fatty acid chain length and addition of bioactive lipids**
H.J. Rutherford*, M.A. Rogers, N.H. Low, *University of Saskatchewan, Canada*
- [P1.09] **Electrolyte ions at the surface of bacillus subtilis: An XPS study**
L. Leone, S. Sjöberg, A. Shchukarev*, *Umeå University, Sweden*
- [P1.10] **Study of mechanisms of rifampicine release in sol-gel derived siloxane-PMMA nanocomposites used as drug delivery systems**
B. Ferreira¹, F.S.Pais¹, K. Dahmouche*¹, C.M. Paranhos², A.S. Gomes¹, ¹*Federal University of Rio de Janeiro (UFRJ), Brazil*, ²*Federal University of São Carlos (UFSCAR), Brazil*
- [P1.11] **The effect of water on structuring edible oils by self-assembling mixtures of β -sitosterol and γ -oryzanol.**
A. Bot*¹, R. den Adel¹, H. Sawalha², P. Venema², E. Flöter¹, ¹*Unilever R&D Vlaardingen, The Netherlands*, ²*Wageningen University, The Netherlands*
- [P1.12] **Formulation of colloidal nanosilver for controlled release of biologically active silver ion**
J. Liu, R. Hurt*, *Brown University, USA*
- [P1.13] **Dimercaptosuccinic acid-coated iron oxide nanoparticles for cancer therapy**
C.J. Serna*¹, R. Mejias², F.J. Lázaro³, L. Gutierrez³, D.F. Barber², M.P. Morales¹, ¹*Instituto de Ciencia de Materiales de Madrid/CSIC, Spain*, ²*Centro Nacional de Biotecnología/CSIC, Spain*, ³*Universidad de Zaragoza, Spain*
- [P1.14] **Functionalized polyelectrolytes nanocapsules with emulsion core for targeted drug delivery**
K. Szczepanowicz*¹, H.J. Hoel², G. Gaudernack², P. Warszynski¹, ¹*Institute of Catalysis and Surface Chemistry PAS, Poland*, ²*Oslo University Hospital, Norway*
- [P1.15] **Physicochemical characterization of stearyl alcohol-based solid lipid nanoparticles**
M.D. Howard*¹, X. Lu², T.D. Dziubla¹, M. Jay², ¹*University of Kentucky, USA*, ²*University of North Carolina at Chapel Hill, USA*

- [P1.16] **Investigation of propranolol release mechanisms in sol-gel derived siloxane-PPO nanocomposites used as drug delivery systems**
R.O. Silva¹, K. Dahmouche^{*1}, J.H.C. Pereira¹, C.M. Paranhos², C.E.M. Carvalho³, ¹Federal University of Rio de Janeiro (UFRJ), Brazil, ²Federal University of São Carlos (UFSCAR), Brazil, ³State University of West Zone (UEZO), Brazil
- [P1.17] **Comparative study of the effect of different nanoparticles on Poly(ϵ -caprolactone) nanocomposites**
M. Monteiro*, M.I. Tavares, *Universidade Federal do Rio de Janeiro, Brazil*
- [P1.18] **Investigation of indomethacin-loaded nanoemulsion system for transdermal delivery**
N. Barakat*, E. Fouad, A. El-Medany, *King Saud University, Saudi Arabia*
- [P1.19] **Self-assembly, drug delivery behaviors and cytotoxicity evaluation of amphiphilic chitosan-graft-poly(1, 4-dioxan-2-one) copolymers**
Y.L. Zhai, D.L. Tang, X.L. Wang*, Y.Z. Wang, *College of Chemistry, China*
- [P1.20] **Modification and characterization of O-acetyl galactoglucomannans**
V. Kisonen*, P. Eklund, A. Sundberg, J. Hemming, A. Pranovich, M. Auer, R. Sjöholm, V. Aseyev, S. Willför, *Åbo Akademi University, Finland*
- [P1.21] **Osteoblast behaviors on titanium surfaces with multi-scale microstructures**
B. Feng*, L. Gao, X. Lu, J. Wang, S. Qu, J. Weng, *Southwest Jiaotong University, China*
- [P1.22] **Development of the o/w nanoemulsions for application as drug delivery carriers**
V.E.B. Campos^{*1}, C.R.E Mansur¹, E. Ricci-Júnior², ¹Instituto de Macromoléculas - IMA, Rio de Janeiro, Brazil, ²Faculdade de Farmácia - FF, Rio de Janeiro, Brazil
- [P1.23] **Adsorption of PEO-PPO-PEO surfactant polymers on a gold substrate**
Y.B. Liou, R. Tsay*, *National Yang-Ming University, Taiwan*
- [P1.24] **Organic hybrid iron oxide particles for application in tumor diagnosis and hyperthermia**
F. Chau^{*1}, H. Basti¹, M. Levy², H. Hanini^{1,3,4}, J. Gavard^{3,4}, S. Benderbous⁵, F. Gazeau², S. Ammar¹.
¹Université Paris Diderot, CNRS-UMR 7086, France, ²Université Paris Diderot, CNRS-UMR 7057, France, ³Université Paris Descartes, France, ⁴INSERM U1016, France, ⁵INSERM UMRS 825 France
- [P1.25] **Specially designed CeO₂ nanoparticles used in an in vitro model of Alzheimer's disease**
A.M. Monaco^{*1}, B. D'Angelo¹, R. Gentile¹, S. Das², S. Seal², A. Cimini¹, S. Santucci¹, ¹University of L'Aquila, Italy, ²University of Central Florida, USA
- [P1.26] **Electro spray coating of capsulated tetracycline (TC) in poly-lactic acid (PLA) for dental implant**
S.K. Moon, M.K. Kang, K.M. Kim, K.N. Kim*, *Yonsei University, South Korea*
- [P1.27] **Studies of wettability alteration and adsorption on surfaces and sandstone rocks by biosurfactant produced by *Bacillus subtilis***
H.S. Al-Sulaimani*, Y.M. Al-Wahaibi, S.N. Al-Bahry, A.K. Elshafie, A.S. Al-Bemani, S.J. Joshi, *Sultan Qaboos University, Oman*
- [P1.28] **Pine needles: A low cost adsorbent for the purification of potable water**
V. Agnihotri*, K. Kumar, L.M.S. Palni, G.B.Pant *Institute of Himalayan Environment and Development, India*
- [P1.29] **The studying of adsorption of antifreeze glycoprotein fraction 7 on silica**
A. Karami, *Iranian Academic Center for Education, Iran*
- [P1.30] **The wettability of Al₂O₃ (or Al₂O₃/DPPC) surface in the presence of lipase *Candida Cylindracea* enzyme**
A.E. Wiacek, *M. Curie-Sklodowska University, Poland*
- [P1.31] **Mesoporous silica/apatite nanomaterials with incorporated organic groups**
A. Borówka*, *M. Curie-Sklodowska University, Poland*
- [P1.32] **Protein colloids for foods**
R. de Vries, ¹Wageningen University, The Netherlands, ²Top Institute Food and Nutrition, The Netherlands
- [P1.33] **Bioprecipitates formed at the interface: Viable *Shewanella putrefaciens* cells – aqueous Mn(II) over 30 days – FTIR, EXAFS, XPS and SEM characterization**
N. Chubar^{*1}, A. Shchukarev², T. Behrends¹, ¹Utrecht University, The Netherlands, ²Umeå University, Sweden
- [P1.34] **The correlation between albumin adsorption and cell behaviour on unmodified and sulfonated polystyrene surfaces**
M. Nowak-Wyrzykowska^{*1}, R. Kolos^{2,3}, A. Szczepankiewicz⁴, J. Dobkowski², J. Kaminski⁵, H. Kowalczyńska¹, ¹Medical Centre for Postgraduate Education, Poland, ²Institute of Physical Chemistry of the Polish Academy of Sciences, Poland, ³Cardinal Stefan Wyszyński University, Poland, ⁴Nencki Institute of Experimental Biology of the Polish Academy of Sciences, Poland, ⁵Industrial Chemistry Research Institute, Poland

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- [P1.35] **Protein adsorption on alumina and silica nanoparticle surfaces tuned with acidic and basic surface groups**
F. Meder*, T. Daberkow, L. Treccani, K. Rezwani, *University of Bremen, Germany*
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- [P1.36] **The preparation of solid core drug delivery systems**
K.T. Mader*, V. Trivedi, J.C. Mitchell, M.J. Snowden, *University of Greenwich, UK*
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- [P1.37] **The incidence of the oil nature on the behaviour of nanocapsules prepared via nanoprecipitation and via emulsification-diffusion**
C.E. Mora-Huertas*, H. Fessi, A. Elaissari, *Université Lyon, France*
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- [P1.38] **Conamore: Contact angle molecular recognition**
D. Maiolo¹, G. Oliviero¹, I. Colombo², D. Leali¹, S. Mitola¹, P. Bergese*¹, ¹University of Brescia, Italy,²Eurand S.p.A., Italy
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- [P1.39] **Interaction between various cellulose nanofibrils and polymers**
M. Österberg*, P. Eronen, J. Laine, *Aalto University, Finland*
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- [P1.40] **Fabrication of luminescent immunosensor by incorporation of CdSe quantum dots in polystyrene nanoparticles**
S. Kim*, Y.S. Choi, D.W. Lee, *Chonnam National University, South Korea*
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- [P1.41] **Colloids as tools to explore microbial adhesion**
O. Galy¹, J. Geng¹, C. Beloin⁴, J.M. Ghigo⁴, N. Henry*^{1,2}, ¹Institut Curie, France,²CNRS, France,³UPMC, France,⁴Institut Pasteur, France
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- [P1.42] **Stabilization of allicin in solution by biopolymers and production of allicin loaded microparticles by spray drying**
O. Kaspar*, P. Kovacic, F. Stepanek, *ICT Prague, Czech Republic*
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- [P1.43] **Do lipopolysaccharides protect bacteria against damages caused by interaction with polyethyleneimine ?**
M.E. Krapf*, B.S. Lartiges, C. Merlin, G. Francius, J. Ghanbaja, J.F.L. Duval, *Nancy Université, France*
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- [P1.44] **ODN based biosensors: Nanoparticle supported sensor chips and probe-ligand binding force measurements for separation and detection purposes**
M.O. Caglayan¹, N. Atar*², Z. Ustundag², A.O. Solak³, ¹Cumhuriyet University, Turkey, ²Dumlupinar University, Turkey, ³Kyrgyz-Turk Manas University, Kyrgyzstan
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- [P1.45] **"Stealth" core-shell polymeric nanoparticles as a robust drug delivery platform for combinatory therapy**
E. Jäger, A. Jäger*, K. Ulbrich, B. Rihová, P. Štěpánek, *Academy of Sciences of the Czech Republic, Czech Republic*
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- [P1.46] **Silica nanoparticles Co-encapsulating gadolinium oxide and horse radish peroxidase for imaging and therapeutic applications**
N. Gupta, R.K. Sharma*, *University of Delhi, India*
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- [P1.47] **Calcium carbonate particles surface charge and shape control by sodium polyacrylates**
A. Jada*, S. Erlenmeyer, *IS2M-CNRS-UHA, France*
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- [P1.48] **Bioinspired hybrid materials from lipids and nucleic acids: Molecular recognition drives structural properties at the nanoscale**
D. Berti*, S. Milani, C. Montis, P. Baglioni, *CSGI and University of Florence, Italy*
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- [P1.49] **Nucleolipoplexes: Interaction with GUV as cell membrane model systems. A Confocal Microscopy study.**
C. Montis^{1,2}, S. Milani^{1,2}, P. Baglioni^{1,2}, D. Berti*^{1,2}, ¹University of Florence, Italy,²CSGI, Italy
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- [P1.50] **Modification of gelatin properties by radiation induced cross-linking**
P.Y. Inamura, F.H. Kraide, E.A.B. Moura, N.L.d. Mastro*, *Nuclear and Energy Research Institute (IPEN-CNEN/SP), Brazil*
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- [P1.51] **Hyaluronic acid colloidal particles: The influence of preparation process on the capability for encapsulation of A. chica Verlot vegetal extract and wound healing activity**
V.F. Souza¹, F. Izquierdo¹, M.P. Jorge^{1,2}, M.A. Foglio^{1,2}, M.H. Santana*¹, ¹University of Campinas, Brazil, ²CPQBA/University of Campinas, Brazil
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- [P1.52] **Surface crowding dependent enzymatic activity of trypsin immobilized on ultrafine CuS nanoparticles**
B. Saha*, J. Saikia, S. Chakraborty, G. Das, *Indian Institute of Technology Guwahati, India*
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- [P1.53] **Colloidal stability of emulsions and nanoparticles in pharmaceuticals**
M. Fleury, Y. Lefeuvre*, C. Tisserand, L. Brunel, G. Meunier, *Formulation, France*
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- [P1.54] **Kinetics of TNT degradation in the presence zero valent iron nanocatalyst**
A. Badawi¹, S. Shaban^{*1}, S. Ahmed¹, S. Morsy^{1,2}, ¹Taif University, Saudi Arabia, ²Ain Shams University, Egypt, ³National Research Center, Egypt
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- [P1.55] **Modelling of bimetallic nanoparticles synthesis in microemulsions: Mechanism and structure**
C. Tojo^{*1}, M. de Dios¹, M.A. López-Quintela², ¹University of Vigo, Spain, ²University of Santiago de Compostela, Spain
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- [P1.56] **Utilization of smart hydrogel-metal composites as catalysis media**
N. Sahiner^{*}, O. Ozay, S. Butun, A. Kaynak, V. Demir, B. Dibek, *Canakkale Onsekiz Mart University, Turkey*
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- [P1.57] **Organometallic approach for the synthesis of water-soluble metal nanoparticles and application in catalysis**
K. Philippot^{*1,2}, P.J. Debouttière^{1,2}, B. Chaudret^{1,2}, A. Denicourt-Nowicki³, A. Roucoux³, ¹CNRS, ²Université de Toulouse, France, ³ENSCR Université de Rennes, France
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- [P1.58] **Highly efficient visible light oxide semiconductor photocatalysts for the degradation of organic dye pollutants**
T.Z. Zhang^{*}, Y.H. Liang, L. Shang, D.H. Zhang, T. Bian, Technical Institute of Physics and Chemistry, *Chinese Academy of Sciences, China*
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- [P1.59] **Preparation of surfactant enhanced metal dispersed carbon nanofibers for the adsorption of persistent gaseous organic pollutants**
M. Bikshapathi^{*}, A. Sharma, N. Verma, *Indian Institute of Technology Kanpur, India*
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- [P1.60] **Electrocatalytic reduction of nitrite species on modified electrode with Cu-ZSM5**
M.A. Oliver-Tolentino, B.M. Angeles-Cuellar, A. Guzman-Vargas^{*}, A. Manzo-Robledo, E.M. Arce-Estrada, *ESIQIE-IPN, Mexico*
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- [P1.61] **Synthesis and characterization of ruthenium nanoparticles stabilized with N-heterocyclic carbenes**
P. Lara^{*1}, F. Novio¹, K. Philippot¹, B. Chaudret¹, O. Rivada-Wheelaghan², S. Conejero², ¹Laboratoire de Chimie de Coordination CNRS, France, ²Universidad de Sevilla-CSIC, Spain
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- [P1.62] **Reduced graphene oxide-titanate hybrid with tunable morphologies by alkali-solvothermal and post-treated temperatures**
T.D. Nguyen Phan, V.H. Pham, J. Chung, E. Shin^{*}, ¹University of Ulsan, South Korea
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- [P1.63] **On the application of concepts from colloid chemistry to materials design: Aluminium-derivatised monodisperse mesoporous silica nanospheres with a high catalytic activity in liquid phase esterification prepared by a one-step route.**
J.L. Nyalosaso^{*}, G. Derrien, C. Charnay, L.C. De Menorval, J. Zajac, ¹University of Montpellier, France
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- [P1.64] **Fabrication of dense monodisperse titania microspheres**
D. Schunk^{*1}, F. Marlow^{1,2}, ¹Max-Planck-Institut fuer Kohlenforschung, Germany, ²Center for Nanointegration Duisburg-Essen (CeNIDE), Germany
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- [P1.65] **photocatalytic behaviour of electrochemically synthesized copper clusters**
N. Vilar Vidal^{*1}, M.C. Blanco Varela¹, M.A. López Quintela¹, J. Rivas Rey¹, ¹University of Santiago de Compostela, Spain, ²INL-International Iberian Nanotechnology Laboratory, Portugal
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- [P1.66] **Tuneable palladium nanocatalysts for the selective oxidation of allylic alcohols**
C.V. Ellis^{*1}, A.F. Lee¹, K. Wilson¹, M.A. Newton², C.M.A. Parlett¹, T.H. Lim³, ¹Cardiff University, UK, ²European Synchrotron Radiation Facility, France, ³University of Oxford, UK
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- [P1.67] **Nano silica from rice husk ash as a support material for heteropoly acids: Heterogeneous nano catalyst**
E. Rafiee^{*}, S. Shahebrahimi, *Razi University, Iran*
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- [P1.68] **Synthesis of nano supported heteropoly compounds as efficient catalysts for Friedlander reaction**
E. Rafiee^{*}, F. Khajoei Nejad, M. Joshaghani, S. Eavani, *Razi University, Iran*
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- [P1.69] **A new nano Bismuth(III) salophen catalyst for green and efficient catalytic oxidation of benzoin to benzils**
M. Joshaghani^{*}, M. Jafari, E. Rafiee, M. Faizi, ¹Razi University, Iran
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- [P1.70] **Investigation of photocatalytic and photoelectrocatalytic performance of titania composite arrays of nanoparticle/ nanotube**
L. Yu, S. Yuan^{*}, L.Y. Shi, Y. Zhao, J.H. Fang, Z.Y. Wang, *Shanghai University, China*
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- [P1.71] **Preparation, characterization and investigation photocatalytic properties Of Cu,Nd-codoped TiO₂ nanocomposites**
B. Khodadadi^{*}, M. Sabeti, S. Moradi, P. Aberomand Azar, M.E. Olya, S. Raeis Farshid, *University of Qom, Iran*
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- [P1.72] **Investigation on the used Co/SiO₂ catalysts from Fischer-Tropsch synthesis at varied pressures by X-ray Absorption Spectroscopy**
S. Chotiwan¹, P. Viravathana¹, S. Kityakarn¹, Y. Pooarporn², ¹Kasetsart University, Thailand, ²Synchrotron Light Research Institute (Public Organization), Thailand
- [P1.73] **Effect of synthesis conditions on CVC-made TiO₂ nanoparticles and those photocatalytic performances for methylene blue**
S. Chin*, E. Park, J. Jurng, *Korea Institute of Science and Technology, South Korea*
- [P1.74] **Silica supported cobalt catalysts for Fischer-Tropsch synthesis prepared by the developed method from co-precipitation and incipient wetness impregnation techniques**
S. Prangsri-aroon¹, P. Viravathana¹, A. Worrayingyong¹, W. Kungwansupamonkon², O. Deutschmann³, H. Schulz³, ¹Kasetsart University, Thailand, ²National Science and Technology Development Agency, Thailand, ³Karlsruhe Institute of Technology, Germany
- [P1.75] **Preparation and characterization of V₂O₅/TiO₂ catalysts synthesized by a chemical vapor condensation method and their catalytic oxidation of 1,2-dichlorobenzene**
J. Jurng*, S. Chin, E. Park, *Korea Institute of Science and Technology, South Korea*
- [P1.76] **Tuning morphology and catalytic activity of CeO₂**
G. Ranga Rao*, S.K. Meher, *Indian Institute of Technology Madras, India*
- [P1.77] **Investigation of Ag nanoparticles produced by nanosecond pulsed laser ablation in water**
A.S. Nikolov*, N.N. Nedyalkov, R.G. Nikov, P.A. Atanasov, M.T. Alexandrov, D.B. Karashanova, *Bulgarian Academy of Sciences, Bulgaria*
- [P1.78] **Synthesis of mullite at low temperature in an aqueous medium with different ethylene glycol content**
L.S. Cividanes, T.M.B. Campos, D.D. Brunelli, G.P. Thim*, *Instituto Tecnológico de Aeronáutica, Brazil*
- [P1.79] **Metal clusters: A key missing point in the synthesis of gold nanorods**
Y.A. Attia^{1,2}, C. Vázquez-Vázquez¹, M.C. Blanco^{*1}, M.A. López-Quintela¹, ¹University of Santiago de Compostela, Spain, ²Cairo University, Egypt
- [P1.80] **Beyond the nano-world: Exploring novel catalytic properties of sub-nano-materials**
D. Buceta¹, J. Selva², S.E. Martinez², G. Egea², M.C. Blanco^{*1}, J. Rivas¹ and M.A. Lopez-Quintela¹, ¹University of Santiago de Compostela, Spain, ²UniVersitat de Barcelona, Spain
- [P1.81] **Microstructure and cell compatibility of Hydroxyapatite/Titania composite coating**
M.K. Kang, S.K. Moon*, K.M. Kim, Y.K. Lee, K.N. Kim, *Yonsei University, South Korea*
- [P1.82] **The effect of polysorbate surfactants on the formation and stability of lipid nanostructures**
W.H. Lim, *Malaysia Palm Oil Board, Malaysia*
- [P1.83] **Additives effects of PVP, CMC, HPC on the photocatalytic activity of Ag-doped TiO₂ nanocomposite**
S. Raeis Farshid, S. Moradi Dehaghi, P. Aberomand Azar, M.E. Olya, B. Khodadadi*, *Islamic Azad University of Lahijan, Iran*
- [P1.84] **Polymer encapsulated mesoporous carbon particles: A versatile drug delivery vehicle**
A. Rammohan*, L. Tayal, S. Sivakumar, A. Sharma, *Indian Institute of Technology, India*

Monday, May 9th 2011, 18:30-20:00

Poster Session 2

Topics: Green nano and colloid chemistry

Supersolvophobic surfaces, wetting and surface functionalization

- [P2.01] **Volumetric and diffusion properties of water/surfactant/n-propanol/4-allylanisole micellar systems**
M. Fanun, *Al-Quds University, Palestinian Territory, Occupied*
- [P2.02] **Particle size reduction of Bentonite by mechanical grinding : Effect on the structure, shape and particle size distribution**
L.A. Al Juhaiman, W.Q. Mekhamer, M.H. Al Qunaibit*, *King Saud University, Saudi Arabia*
- [P2.03] **Synthesis of multi walled carbon nanotube / tungsten oxide nanomaterial and its application for sun-light-induced degradation of rhodamine B**
V.K. Gupta^{*1,2}, T.A. Saleh², ¹Indian Institute of Technology Roorkee, India, ²King Fahd University of Petroleum & Minerals, Saudi Arabia
- [P2.04] **Nanofluids: A new class of materials produced from nanoparticle assemblies**
R. Jagannathan, S. Khapli*, *New York University Abu Dhabi, United Arab Emirates*
- [P2.05] **Facile synthesis of copper nanoink for applications of low-cost ink-jet printable electronics**
J. Xiong, Y. Wang, Q. Gu, Q. Xue, X. Wu*, *Ningbo Institute of Materials Technology & Engineering, China*
- [P2.06] **Interaction between micellar bile acid salts and morphine hydrochlorid**
M. Posa*, F. Gaal, J. Csanadi, *University of Novi Sad, Serbia*

- [P2.07] **Green synthesis, characterization and thin solid film growth of copper microstructures for nanotechnology**
M. Veerapandian*, K. Yun, *Kyungwon University, South Korea*
- [P2.08] **Oil binding ability of wheat starch granules in aged or dry-heated wheat flour and the role of this hydrophobicity in cake baking with the flour**
M. Seguchi*, M. Ozawa, C. Nakamura, *Kobe Women's University, Japan*
- [P2.09] **Microporous carbon and mesoporous metallic copper particles obtained from the heat-treatment process of an organic-inorganic layered nanohybrid material**
M. Yeganeh Ghotbi, *University of Malayer, Iran*
- [P2.10] **Fractionation of Au nanoparticles by their crystal facet distinction**
T. Kawai, Y. Imura, C. Morita, H. Endo*, *Tokyo University of Science, Japan*
- [P2.11] **Synthesis and NIR shielding performance of Cs_xWO₃ nanoparticles with tungsten bronze structure by solvothermal reactions in ethanol-acetic acid mixed solutions**
C. Guo, S. Yin, M. Yan, Y. Ando, T. Sato*, *Tohoku University, Japan*
- [P2.12] **Self assembled polysaccharide films as templates for the green synthesis of hematite nanostructures**
M. Nidhin*, K.J. Sreeram, B.U. Nair, *Central Leather Research Institute (CSIR), India*
- [P2.13] **A new method for the production of colloidal nano-silica.**
A. Lazaro*, J. Brouwers, *Technical University of Eindhoven, The Netherlands*
- [P2.14] **Schiff base modified silica for metal ion adsorption**
R. Buntem*, N. Diteepeng, R. Teerasarunyanon, *Silpakorn University, Thailand*
- [P2.15] **Thermodynamic study on influence of denaturant concentrations on molecule conformations of BSA adsorbed on hydrophobic surface at 308 K**
Y. Zhou¹, X.P. Geng¹, B.H. Wang², J.J. Peng¹, ¹*Xi'an Polytechnic University, China*, ²*Peking University, China*
- [P2.16] **Direct methanol fuel cell using Se/Ru core/shell electrodes provide high catalytic activity and stability**
Z.Y. Shih*, Z. Yang, Z.H. Lin, H.T. Chang, *National Taiwan University, Taiwan*
- [P2.17] **Quantum dot-sensitized solar cells provide power conversion efficiency 4.80%**
C.Y. Chen*, Z. Yang, Z.Y. Shih, H.T. Chang, *National Taiwan University, Taiwan*
- [P2.18] **Synthesis of CdS nanowires and nanorods using solvothermal process aided by different sulfur sources**
M.R. Mohammadi*, P. Dalvand, *Sharif University of Technology, Iran*
- [P2.19] **Nucleation kinetics of bimetallic nanoparticles in microemulsions**
C. Tojo*, F. Barroso, *University of Vigo, Spain*
- [P2.20] **Ordering of FePt nanoparticle superlattice produced by spin-coating using cationic lipid molecules as surfactant**
H.H. An, J.H. Lee, H.S. Kim, Y.H. Kim, D.K. Choi*, C.S. Yoon, *Hanyang University, South Korea*
- [P2.21] **Oily soil detergency using microemulsion-based formulations: Mechanism of oil detachment**
S. Chavadej¹, P. Tanthakit¹, J.F. Scamehorn², D.A. Sabatini², V. Tantayakom³, ¹*Chulalongkorn University, Thailand*, ²*University of Oklahoma, USA*, ³*PTT Chemical Public Limited, Thailand*
- [P2.22] **Removal of trace Cd²⁺ using continuous multistage ion foam fractionation: Effect of salt addition**
V. Rujirawanich¹, S. Chavadej¹, J.H. O'Haver², R. Rujiravanit¹, ¹*Chulalongkorn University, Thailand*, ²*The University of Mississippi, USA*
- [P2.23] **Physico-chemical properties of highly dispersed oxide systems precipitated in water and emulsion environment**
F. Ciesielczyk*, T. Jesionowski, *Poznan University of Technology, Poland*
- [P2.24] **Electrokinetic properties of colloidal hybrid systems SiO₂/POSS type**
M. Nowacka, K. Szwarc, F. Ciesielczyk*, *Poznan University of Technology, Poland*
- [P2.25] **Hybrid pigments preparation via adsorption of selected food dyes onto anatase titanium dioxide**
K. Siwinska-Stefanska, T. Jesionowski*, *Poznan University of Technology, Poland*
- [P2.26] **Influence of ionic strength and electrolyte type on electrokinetic properties of TiO₂ and TiO₂-SiO₂ mixed oxides**
M. Nowacka, K. Siwinska-Stefanska, T. Jesionowski*, *Poznan University of Technology, Poland*
- [P2.27] **Modified bitumens derived from particle stabilized emulsions**
Q. Zhou*, A. James, *Akzo Nobel Surface Chemistry LLC, USA*
- [P2.28] **CdTe nanowires derived from solvothermal process: Controlling the aspect ratio by capping agents**
M.R. Mohammadi*, S. Ranjbarzadeh, *Sharif University of Technology, Iran*

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- [P2.29] **Synthesis and characterization of bismuth ferrite nanoparticles**
C. Vázquez-Vázquez*, M.A. López-Quintela, J. Rivas, *University of Santiago de Compostela, Spain*
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- [P2.30] **Research on conformational change of denatured lysozyme adsorbed onto a moderately hydrophobic surface**
J.J. Peng, X.P. Geng*, Y. Zhou, *Xi'an Polytechnic University, China*
-
- [P2.31] **Size controlled synthesis and characterization of red-to-green color tunable Eu⁺³ and Tb⁺³ codoped Y₂O₃ nanoparticles**
T.S. Atabaev*, H.K. Kim, Y.H. Hwang, *Pusan National University, South Korea*
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- [P2.32] **Characterization and antioxidative activity of nanostructured lipid carrier**
J.M. Wang^{1,2}, J.G. Tang^{1,2}, H.X. Wang^{1,2}, X.Y. Deng^{1,2}, Q. Xia^{1,2}, ¹*Southeast University, China*, ²*Suzhou Key Laboratory of Biomedical Materials and Technology, China*, ³*Suzhou Nanohealth Biotech Co. Ltd., China*
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- [P2.33] **Rheological investigations of the effect of the addition of a free non-adsorbing polymer on creaming of sterically stabilized emulsions**
S. Aben^{1,2}, C. Holtze¹, T. Tadros³, P. Schurtenberger⁴, ¹*Competence Center Formulation Technology, Germany*, ²*University of Fribourg, Switzerland*, ³*Nash Grove Lane, UK*, ⁴*Lund University, Sweden*
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- [P2.34] **Laccase from *Paraconiophyrium variabile* for green synthesis of gold nanoparticles**
N. Nafissi-Varcheh¹, M.A. Faramarzi², H. Forootanfar², ¹*Shahid Beheshti University of Medical Sciences, Iran*, ²*Tehran University of Medical Sciences, Iran*
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- [P2.35] **Preparation and thermal stability of fluoroalkyl end-capped oligomers/silica nanocomposites-encapsulated of a variety of low molecular weight aromatic compounds**
H. Sawada*, *Hirosaki University, Japan*
-
- [P2.36] **Charge, size and concentration effects on colloid diffusion in rock**
U. Alonso¹, T. Missana¹, A. Patelli², M. Garcia-Gutierrez¹, A. Benedicto¹, N. Albarrañ¹, ¹*CIEMAT, Spain*, ²*CIVEN, Italy*, ³*LNL-INFN, Italy*
-
- [P2.37] **Non-traditional (alkoxide-free) sol-gel synthesis of the new inorganic anion exchangers based on Mg-Al hydrous oxides and characterization of their surface & adsorptive properties**
N. Chubar, *Utrecht University, The Netherland*
-
- [P2.38] **Growth and formation dynamics of acentric dielectric nanoparticles in reverse microemulsions probed by Hyper-Rayleigh Scattering measurements**
M. El Kass¹, C. Joulaud¹, L. Houf¹, Y. Mugnier¹, R. Le Dantec¹, R. Hadji^{1,2}, ¹*Université de Savoie, France*, ²*Université Henri Poincaré-Nancy, France*, ³*Université de Savoie, France*, ⁴*Université de Lomé, Togo*
-
- [P2.39] **Chemical speciation of ammonia and amino-group at mineral-water interfaces**
A. Shchukarev*, K. Shimizu, M. Ramstedt, J.F. Boily, *Umeå University, Sweden*
-
- [P2.40] **The hydrothermal synthesis of a stable dispersion of TiO₂ nanoparticles with a high anatase content**
B. Souvereyns¹, A. Kelchtermans¹, C. De Dobbelaere¹, V. Meynen^{1,2}, P. Cool^{1,2}, A. Hardy¹, M.K. Van Bael¹, ¹*University of Hasselt, Belgium*, ²*University of Antwerp, Belgium*
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- [P2.41] **Relevance of surface chemistry of inorganic colloids in liquid-phase processing**
B. Ferrari¹, M. Verde¹, I. Gonzalo-Juan¹, J. Escribano¹, A.C. Caballero¹, M. Villegas¹, ¹*Instituto de Ceramica y Vidrio, Spain*
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- [P2.42] **Assembling and packing of nanoparticles under an electric field**
M. Verde, I. Gonzalo-Juan, M. Villegas, A.C. Caballero, B. Ferrari*, ¹*Instituto de Ceramica y Vidrio, Spain*
-
- [P2.43] **An AFM study of nanoparticles arrangement with deposition time**
J. Escribano, I. Gonzalo-Juan, A.J. Sanchez-Herencia, B. Ferrari*, *Instituto de Ceramica y Vidrio, Spain*
-
- [P2.44] **Solvothermal preparation of Sn⁴⁺ doped TiO₂ nanocrystals with controlled crystal form and their photocatalytic activity**
Y. Zhao*, J. Liu, L.Y. Shi, S. Yuan, J.H. Fang, Z.Y. Wang, *Shanghai University, China*
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- [P2.45] **Rapid preparation of TiO₂ by microwave-assisted hydrothermal method and their photocatalytic activity**
W.W. Li, Y. Zhao, L.Y. Shi*, S. Yuan, J.H. Fang, Z.Y. Wang, *Shanghai University, China*
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- [P2.46] **Synthesis and characterization of polymer/inorganic composites derived from hydrophilic polymers with sodium silicate precursor: A comparison study of PVP/silica and PVA/silica composites**
T. Kotoky*, B.C. Thapa, *Sikkim Manipal University, India*
-
- [P2.47] **Fabrication of microelectrodes by flow driven layer-by-layer deposition of gold nanoparticles**
P. Kumlangdudsana¹, A. Tuantranont², I. Luxsana¹, ¹*Chulalongkorn University, Thailand*, ²*National Science and Technology Development Agency, Thailand*
-
- [P2.48] **Automatic regulation of a polymer based manure separation system using physical and chemical parameters**
B. Malmgren-Hansen, M. Kristjansson*, *Danish Technological Institute, Denmark*
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- [P2.49] **Applying nanotechnology to achieve environmentally friendly coatings**
A.L. Nielsen^{*1}, D. Löf², G. Sorensen¹, ¹Danish Technological Institute, Denmark, ²Dyrup A/S, Denmark
- [P2.50] **Dispersion of nickel oxide and hydroxide in aqueous media**
S. Cabanas-Polo¹, A.J. Sanchez-Herencia^{*1}, ¹Instituto de Ceramica y Vidrio, Spain
- [P2.51] **Effect of reaction conditions on the size and morphology of ultrasonically prepared Ni(OH)₂ powders**
S. Cabanas-Polo¹, K.S. Suslick¹, A.J. Sanchez-Herencia^{*1}, ¹Instituto de Ceramica y Vidrio, Spain, ²University of Illinois, USA
- [P2.52] **Adsorption of transition metal ions onto colloidal organic-silica composites**
R. Singhon, J. Husson, M. Knorr, M. Euvrard^{*}, Université de Franche Comté, France
- [P2.53] **Synthesis of titania nanosols and study of their interaction with cell membrane**
Z.R. Ismagilov^{*1}, N.V. Shikina¹, N.A. Mazurkova², Y.E. Spitsyna³, S.N. Zagrebel'nyi², E.I. Ryabchikova³, ¹Boreskov Institute of Catalysis, Russia, ²Novosibirsk State University, Russia, ³Institute of Chemical Biology and Fundamental Medicine, Russia
- [P2.54] **Counteranion effect on the hydrophobic and hydrophilic interactions from adsorbed emulsified media on the anionic macroporous exchange resins**
M. Zéphirin^{*}, L. Eric, F. Jean-François, B. Bélanda, Institut National Polytechnique, France
- [P2.55] **The relevance of colloids formation on wastewater treatment: A study of the phenomenon at industrial scale**
G. Trunfio, Université de Franche Comté, France
- [P2.56] **Layer by layer deposition of polyaniline blend polystyrene sulfonate prepared from interfacial polymerization**
E. Detsri, S.T. Dubas^{*}, Chulalongkorn University, Thailand
- [P2.57] **Synthesis of highly versatile pyrogenic silica by sonochemistry Study of morphology by fluorescent labelling**
B. Matthieu, C. Francine, W. Patrice, L. David, D. François^{*}, Université Lille Nord de France, France
- [P2.58] **Development of one-step multiple emulsions of sesamum oil by pseudo-ternary phase diagram**
N.R. Maciel^{*}, M.R. Siani, J. Bortoloto, P.A. Rocha-Filho, Universidade de São Paulo, Brazil
- [P2.59] **Evaluate of oil/water nanoemulsions prepared by high-energy to break up crude oil emulsion**
V. Bomfim de Souza, J. Gomes Santos Neto, C. Regina Elias Mansur, V.E. Bucco de Campos^{*}, Federal University of Rio de Janeiro, Brazil
- [P2.60] **PMMA-gold metallodielectric photonic crystals and inverse opals: Preparation and optical properties**
S. Kassim^{*}, S. Padmanabhan, M. Salaun, M. Pemble, Tyndall National Institute, Ireland
- [P2.61] **DFT calculations on nonlinear optical and spectroscopic properties of free BzMAG₃ and cysm ligands and in the Au@BzMAG₃ and Au@CysM composites**
D. Avci^{*}, A. Basoglu, Y. Atalay, Sakarya University, Turkey
- [P2.62] **Effect of aqueous phase ionic strength and pH on the fluorescence behaviour and surface charge of humic acid**
A. Jada^{*}, R. Ait Akbour, IS2M-CNRS-UHA, France
- [P2.63] **Effect of the ionic strength and the nature of divalent cation on the transport and retention of Humic Acid aqueous solution through porous media**
R. Ait Akbour^{1,2}, J. Douch¹, A. Jada^{*2}, M. Hamdani¹, ¹Université Ibn Zohr, Morocco, ²IS2M-CNRS-UHA, France
- [P2.64] **Single-pot synthesis: Plant mediated gold nanoparticles catalyzed reduction of methylene blue in presence of stannous chloride**
N. Gupta, H.P. Singh, R.K. Sharma^{*}, University of Delhi, India
- [P2.65] **Investigation of shelf-life and foaming of water - SiO₂ - SDS compound**
B.M. Somosvári^{*1}, P. Bárczy¹, G. Kaptay², ¹ADMATIS Ltd., Hungary, ²Bay Zoltán Foundation of Applied Research, Hungary
- [P2.66] **Spectral interaction of gold nanoparticles on Rhodamine B - evaluation of the extinction coefficient variation and the local pH effect**
J.P. Rosa^{*1,2}, P.V. Baptista¹, J.C. Lima², ¹CIGMH/DCV-FCT/UNL, Portugal, ²REQUIMTE/DQ-FCT/UNL, Portugal
- [P2.67] **Physical stability of nanoparticle dispersion**
M. Fleury, Y. Lefeuvre^{*}, C. Tisserand, L. Brunel, G. Meunier, Formulacion, France
- [P2.68] **Assessment and modification of the surface properties of commercial ceramic powders**
B. Neirinck^{*}, D. Soccol, J. Fransaer, J. Vleugels, K.U.Leuven, Belgium
- [P2.69] **Effects of various penetration enhancers on percutaneous absorption of piroxicam**
Y. Javadzadeh^{*1}, J. Shokri¹, S. Azarmi², Z. Fasihi¹, S. Hallaj-Nezhadi¹, S. Asnaashari¹, ¹Tabriz University of Medical Sciences, Iran, ²University of Alberta, Canada

- [P2.70] **Theoretical investigations of surface phonon modes on the (001) surfaces of TiC and NbC**
S. Bagci¹, T. Kamis¹, S. Duman¹, H.M. Tutuncu¹, G.P. Srivastava², ¹*Sakaya Üniversitesi, Turkey*,
²*University of Exeter, UK*
- [P2.71] **Sticky and slippery superhydrophobic surfaces with dual-scale structures prepared by hybrid from nanoparticles and regular pillar-like pattern**
K.H. Cho*, L.J. Chen, *National Taiwan University, Taiwan*
- [P2.72] **Topological wrinkle pattern toward fabrication of discreet micro- to nano-structure**
H. Endo*, M. Tamura, T. Kawai, *Tokyo University of Science, Japan*
- [P2.73] **Patterning silver surfaces by lithography and electrochemistry**
R. Hanarasinghe*, C.D. Morton, S. Jabeen, V. Trivedi, B.D. Alexander, *University of Greenwich, UK*
- [P2.74] **Superhydrophobic coating of epoxy-silica hybrid via a sol-gel method**
R. Feng^{1,2}, L. Zhou^{1,2}, S. Peng^{1,2}, Q. Gu¹, X. Wu¹, ¹*Ningbo Institute of Material Technology and Engineering, China*,
²*Graduate University of the Chinese Academy of Sciences, China*
- [P2.75] **Time resolved sedimentation of aqueous concentrated bimodal suspensions of calcium carbonate**
L.C. Pham Trong*, M. Djabourov, *ESPCI-ParisTech, France*
- [P2.76] **Surface-enhanced Raman Scattering (SERS) spectra of hemoglobin of mouse and rabbit with self-assembled nano silver film**
Y. Kang*, R. Liu, M. Si, *Chuxiong Normal University, China*
- [P2.77] **The anionic surfactant adsorption on plastic surfaces in relation to wettability**
T. Sritapunya¹, S. Chavadej¹, J.F. Scamehorn², B.P. Grady², ¹*Chulalongkorn University, Thailand*,
²*University of Oklahoma, USA*
- [P2.78] **The theoretical and experimental studies on the interaction of dye-surfactant aqueous solution**
S. Fazeli, M. Moallemy, B. Sohrabi*, *Iran University of Science and Technology, Iran*
- [P2.79] **Investigation of micellar and adsorption parameters in cationic mixtures in presence of additives**
M. Moallemy¹, S. Fazeli¹, B. Sohrabi¹, A. Moallemi Oreh², ¹*Iran University of Science and Technology, Iran*,
²*Islamic Azad University, Iran*
- [P2.80] **Capillary transport of cryogenic liquids in porous media**
M. Zhang*, M. Dreyer, *University of Bremen, Germany*
- [P2.81] **Cure study of epoxy resin reinforced with amino functionalized multi-walled carbon nanotubes by luminescence spectroscopy**
L.S. Cividanes*, G.P. Thim, *Instituto Tecnológico de Aeronáutica, Brazil*
- [P2.82] **Dynamic behaviours of droplet impact and spreading - initial wetting velocity and air bubble entrapment**
T.L. Hung, M.J. Wang, S.Y. Lin*, *National Taiwan University of Science and Technology, Taiwan*
- [P2.83] **Design of novel hydrophobic mesoporous silica nanoparticles and amphiphobic cotton textiles**
C. Pereira¹, C. Alves¹, A. Monteiro¹, G. Blanco², J.M. Pintado², A.P. Carvalho³, ¹*Universidade do Porto, Portugal*,
²*Universidad de Cádiz, Spain*,
³*Universidade de Lisboa, Portugal*
- [P2.84] **Corrosion resistance of the super-hydrophobic UV-curable polymeric surfaces on cold rolled steel**
C.W. Peng*, J.M. Yeh, *Chung-Yuan Christian University, Taiwan*
- [P2.85] **Analysis of electrokinetic energy conversion in hydrophobic microchannels with slip-dependent zeta-potential**
P.W. Hwang, J.C. Wang, C.Y. Soong*, *Feng Chia University, Taiwan*
- [P2.86] **Micropatterned surfaces created by grayscale maskless lithography: Effect on wettability**
A. Rammohan*, P.K. Dwivedi, A. Sharma, *Indian Institute of Technology Kanpur, India*
- [P2.87] **Bioconjugation of gold nanoparticles with light-harvesting complexes**
M. Olejnik¹, S. Mackowski¹, N.A. Kotov³, T. Schulte², E. Hofmann², P. Braun⁴, ¹*Nicolaus Copernicus University, Poland*,
²*Ruhr-University Bochum, Germany*,
³*Ludwig-Maximilian University Munich, Germany*,
⁴*University of Michigan, USA*
- [P2.88] **Application of a polyhedral oligomeric silsesquioxane in adsorption of metal ions and oxidation catalysis**
N.L. Dias Filho*, S.D. Perujo, A.C. Bastos, N.C. Silva, *UNESP-Univ Estadual Paulista, Brazil*
- [P2.89] **Scanning probe microscopy study of magnetite particle force interactions in a solution**
I.B. Dobryden*, X. Yang, N. Almqvist, H. Weber, A. Holmgren, *LTU, Sweden*
- [P2.90] **Superhydrophilic water repellent surfaces induced by pure short chain polymorphic glycerol and carbonic fatty acids esters covered surfaces**
R. Valentin, Z. Mouloungui*, *INRA, France*

- [P2.91] **Determination of the affinity of alkoxysilanes on calcite surface through the Hansen solubility parameters**
M.F. Salinas-Nolasco¹, J. Méndez-Vivar^{*2}, ¹Laboratorio de Fisicoquímica, Mexico, ²Universidad Autónoma Metropolitana Iztapalapa, Mexico
- [P2.92] **Transport of colloidal systems through a packed bed of spheres with surface charge heterogeneity**
R. Chatterjee, S. Mitra^{*}, S. Bhattacharjee, *University of Alberta, Canada*
- [P2.93] **Surface tension and wetting mechanisms for nanotube combination**
P. Waghmare, A. Mohammadpour, K. Shankar, S. Mitra^{*}, *University of Alberta, Canada*
- [P2.94] **Application of functionalized β -cyclodextrin in selective adsorption of polyphenol antioxidants from sugar cane juice**
K. Singh^{1*}, J.V. Singh², A. Suman¹, V. K. Singh¹, ¹University of Lucknow, India, ²Nehru P.G. College, India

Tuesday, May 10th 2011, 18:30-19:30

Poster Session 3

Topics: Soft materials from surfactants, polymers and dendrimers
Responsive colloidal materials

- [P3.01] **Synthesis of new substance $C_{42}H_{76}N_2S_2O_8$.**
R.S. Harutyunyan, A.K. Dovlatyan^{*}, *Yerevan State University, Armenia*
- [P3.02] **Predicting the size and size distribution of steric-stabilized TiO_2 nanoparticles used in Pickering-emulsion**
O.N. Olatunji^{*}, R. Kumar, W. Hintz, J. Tomas, *Otto-von-Guericke Universität, Germany*
- [P3.03] **Elaboration of silica nanoparticles network on polyethylene surface**
E. Celia, E. Taffin De Givenchy, S. Amigoni, F. Guittard^{*}, *Universite de NICE, France*
- [P3.04] **Surface-tension-driven synthesis of monodisperse complex particles using confined polymeric fluids**
C.H. Choi^{*}, H.H. Jeong, C.S. Lee, *Chungnam National University, South Korea*
- [P3.05] **Low molecular weight chitosan as a vehicle for solubilization and amorphization of non steroid anti-inflammatory drug for a new guar -based colon delivery formulation**
K. Elkhodairy, N. Barakat^{*}, F. Alanazi, *King Saud University, Saudi Arabia*
- [P3.06] **Determination of the relaxation spectra for calculate dynamic permeability of viscoelastic fluids**
S.D. Rosales-Anzola^{*}, E.A. Lopez G, M.A. Mas, *PDVSA-Intevep, Venezuela*
- [P3.07] **Method to obtain the optimum relaxation time spectra from dynamic modulus**
S.D. Rosales-Anzola^{*}, E.A. Lopez G, *PDVSA-Intevep, Venezuela*
- [P3.08] **Polyethylene blends/clay nanocomposites for agricultural uses**
L. Minkova^{*1}, S. Filippi², ¹Bulgarian Academy of Sciences, Bulgaria, ²University of Pisa, Italy
- [P3.09] **Design and construction of SEDDS filled HPMC and hard gelatine capsules for dissolution and bioavailability improvement of oxcabazepine**
Y. Rane¹, R. Mashru¹, P. Severino^{*2,3}, E. Souto^{3,4}, ¹Wockhardt Research Centre, India, ²University of Campinas, Brazil, ³Fernando Pessoa University, Portugal, ⁴Institute of Biotechnology and Bioengineering, Centre of Genomics and Biotechnology, Portugal
- [P3.10] **Controlling the morphology of polymer-PbS nanocomposites using triggered self-assembly**
R. Rhodes¹, P. OBrien¹, B. Saunders^{*1}, ¹University of Manchester, UK
- [P3.11] **Surface dilatational moduli of poly(*n*-hexyl isocyanate), poly(vinyl acetate), and their binary mixture films spread at the air-water interface**
T. Morioka^{*}, M. Kawaguchi, *Mie University, Japan*
- [P3.12] **Predicting the viscosity of concentrated suspensions of arbitrarily-shaped particles**
I. Santamaria-Holek^{*}, C.I. Mendoza, *National University of Mexico, Mexico*
- [P3.13] **Relationships between structure and electrical properties of conducting bacterial cellulose-polyaniline nanocomposites**
J.A. Marins¹, K. Dahmouche^{*1}, B.G. Soares¹, H.S. Barud², D. Bonemer², S.J.L. Ribeiro², ¹Federal University of Rio de Janeiro, Brazil, ²State university of São Paulo, Brazil
- [P3.14] **Cobalt-based metal catalysts for the partial hydrogenation of benzene to cyclohexene**
N. Karashima^{*1,2}, T. Takei^{1,2}, ¹Tokyo Metropolitan University, Japan, ²JST-CREST, Japan
- [P3.15] **Effect of sulphanilamide adsorption on zeta potential and water loss of raw and Na-activated bentonite**
W.K. Mekhamer, L.A. Al Juhaiman^{*}, A.M. Al-Boajan, *King Saud University, Saudi Arabia*

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- [P3.16] **Preparation of poly(lactic acid)/montmorillonite nanocomposites by solution intercalation and characterization employing NMR relaxametry**
L. Brito*, M.I. Tavares, *UFRJ, Brazil*
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- [P3.17] **Synthesis of silica-alginate microcapsules and silica hollow microspheres for application in bioencapsulation**
P. Hauftová*, J. Dohnal, P. Kovacik, F. Stepanek, *Institute of Chemical Technology, Czech Republic*
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- [P3.18] **Dynamic electrophoretic mobility in salt-free concentrated suspensions including ion size effects**
R. Roa*, F. Carrique, E. Ruiz-Reina, *Universidad de Málaga, Spain*
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- [P3.19] **Amphiphilic blocks copolymers aqueous solutions as solvents for benzene recovery**
A. Erto*, A. Lancia, *Università di Napoli, Italy*
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- [P3.20] **Self-assembly and electroactive properties of amphiphilic poly(amidoamine) dendrimers with an aniline pentamer shell**
W.I. Hung¹, C.B. Hung¹, Y.H. Chang¹, Y. Wei², X.R. Jia³, J.M. Yeh¹, ¹Chung-Yuan Christian University, Taiwan, ²Drexel University, United States Minor Outlying Islands, ³Peking University, China
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- [P3.21] **Visual, structural and rheological properties of polypseudorotaxane composed by β -cyclodextrin and Pluronic[®]**
K.C. Shih, W.Y. Kuo, H.M. Lai*, *National Taiwan University, Taiwan*
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- [P3.22] **Composites of thermoplastic polyurethane/polypropylene-g-maleic anhydride/wollastonite**
S. Keththongmongkol*, S. Chuayjuljit, *Chulalongkorn University, Thailand*
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- [P3.23] **Preparation and properties of poly(vinyl chloride) blended with poly(methyl methacrylate) nanoparticles synthesized by differential microemulsion polymerization**
S. Chuayjuljit*, A. Chantanaprasartporn, J. Wipachon, *Chulalongkorn University, Thailand*
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- [P3.24] **Molecular modeling of gel nanoparticles as drug carriers for oral drug delivery**
J. Tokarsky¹, T. Andrysek², P. Capkova¹, ¹VSB-TU Ostrava, Czech Republic, ²Teva Czech Industries, Czech Republic
-
- [P3.25] **Internal stresses in rigid fractal aggregates immersed in a shear flow**
A. Gastaldi, M. Vanni*, *Politecnico di Torino, Italy*
-
- [P3.26] **Design of polymeric drug carriers using molecular modeling.**
M. Machackova¹, J. Tokarsky¹, T. Andrysek², P. Capkova¹, ¹VSB- TU Ostrava, Czech Republic, ²Teva Czech Industries, Czech Republic
-
- [P3.27] **Water, what else? A story of cationic surfactants in non-aqueous media.**
S.C. Cassel¹, R. Ramsch², I. Rico-Lattes¹, ¹University of Toulouse III, France, ²University of Barcelona, Spain
-
- [P3.28] **Polystyrene/silica colloidal molecules obtained by seeded-growth emulsion polymerization**
A. Désert¹, J.C. Taveau¹, S. Ravaine¹, E. Bourgeat-Lami², A. Thill³, E. Duguet¹, ¹Université de Bordeaux, France, ²Laboratoire de Chimie et Procédés des Polymères, France, ³Laboratoire Interdisciplinaire sur l'Organisation Nanométriques et Supramoléculaire, France
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- [P3.29] **Convective effects on polymer redistribution around a spherical colloid**
T.H. Fan¹, T. Taniguchi², A. Beshkani¹, R. Tuinier^{3,4}, ¹University of Connecticut, USA, ²Kyoto University, Japan, ³DSM Research, The Netherlands, ⁴Utrecht University, The Netherlands
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- [P3.30] **Change of polymer depletion near solvent permeable walls by hydrodynamic flow**
T. Taniguchi¹, T.H. Fan², Y. Arai¹, R. Tuinier^{3,4}, ¹Kyoto University, Japan, ²University of Connecticut, USA, ³DSM Research, ACES, The Netherlands, ⁴Utrecht University, The Netherlands
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- [P3.31] **Fluorescent behaviors of poly (2-(acetoacetoxy)ethyl methacrylate) and its ammonia gas sensing characteristics**
J. He*, T.Y. Zhang, G. Chen, *The Hong Kong University of Science & Technology, Hong Kong*
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- [P3.32] **Surfactant assisted sol – gel synthesis of TiO₂ films with uniform particles size distribution**
O.L. Galkina*, V.V. Vinogradov, A.V. Agafonov, *Russian Academy of Sciences, Russia*
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- [P3.33] **Nanoencapsulation of n-hexadecane as a phase change material through miniemulsion copolymerization of acrylic monomers**
A.R. Mahdavian¹, A. Rezaee², S. Khoei², ¹Iran Polymer and Petrochemical Institute, Iran, ²University of Tehran, Iran
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- [P3.34] **Application of Taguchi design of experiment technique for adsorption of pyridine onto bagasse fly ash**
D.H. Lataye^{1,2}, I.M. Mishra², I.D. Mall², ¹ivesvaraya National Institute of Technology, India, ²Indian Institute of Technology, India
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- [P3.35] **The viscosity influence of a silica/zirconia sol on EISA-based film**
R. Garcia*, S. Souza, E. Kawachi, *Instituto Tecnológico de Aeronáutica, Brazil*
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- [P3.36] **Layer-by-layer self-assembly of polyelectrolyte functionalised carbon nanotubes and [Ni(salen)]-type complexes**
C. Freire^{*1}, S. Patrício¹, C. Moura¹, A.R. Hillman³, ¹Universidade do Porto, Portugal, ²University of Leicester, UK
- [P3.37] **Coacervation equilibrium between sodium dodecyl sulphate, polyethyleneimine, xanthan and polymer derivatives**
J.P.T.A. Guerra*, L.G. Nandi, I.C. Bellettini, K.B. Fontana, E. Minatti, Federal University of Santa Catarina, Brazil
- [P3.38] **Supramolecular aggregates of lentinan polysaccharide and SB3-12 investigated by surface tension and static light scattering**
J.P.T.A. Guerra*, L.G. Nandi, I.C. Bellettini, E. Minatti, Federal University of Santa Catarina, Brazil
- [P3.39] **Preparation morphology and properties of as-prepared SiO₂ -PANI core-shell microspheres decorated with gold nanoparticles**
C.J. Weng*, Y.L. Chen, J.M. Yeh, Chung-Yuan Christian University, Taiwan
- [P3.40] **Supramolecular self-assembly of chelating amphiphiles and their Mn or Gd complexes for MRI imaging**
M.J. Moghaddam^{*1}, L. DeCampo², L.J. Waddington¹, A. Weerawardena¹, C.J. Drummond¹, ¹CSIRO, Australia, ²Australian National University, Australia
- [P3.41] **Effect of the alcohols addition in the R^F₈(EO)₉-based system on the characteristics of mesoporous silica**
J.L. Blin, N. Du, M.J. Stébé*, Université Nancy, France
- [P3.42] **Titanosilicates from the self assembly and the liquid crystal pathways : A comparative study**
J.L. Blin¹, K. Zimny¹, C. Carteret², M.J. Stébé^{*1}, ¹UMR SRSMC N° 7565 Université Nancy 1 / CNRS, France, ²UMR7564 Université Nancy 1 / CNRS, France
- [P3.43] **Control of biomolecule adsorption on chemically phase-separated sapphire surfaces.**
K. Yamazaki*, T. Isono, T. Wada, T. Ogino, Yokohama National University, Japan
- [P3.44] **The effects of size and gel/fluid ratio on the rheological properties of hyaluronic acid hydrogels crosslinked with divinyl sulfone**
A.A.M. Shimojo, M.H.A. Santana*, University of Campinas, Brazil
- [P3.45] **Novel gel emulsions with reverse hexagonal liquid crystal in the continuous phase: Rheological analysis and phase behavior**
A. May^{*1}, K. Aramaki², J.M. Gutiérrez¹, ¹Barcelona University, Spain, ²Yokohama National University, Japan
- [P3.46] **Application of fractal analysis and percolation theory in determination of the structure of langmuir monolayer**
D. Risovic*, S. Frka, Z. Kozarac, Rudjer Boskovic Institute, Croatia
- [P3.47] **Phonon anomalies and superconductivity in the rocksalt CrC and NbC**
S. Duman*, H.M. Tütüncü, A. Akbulut, S. Bagci, Sakarya Universitesi, Turkey
- [P3.48] **Multi-component self-assembling lipopeptides involving labile interactions**
C. Dejugnat*, F. Rodrigues, I. Rico-Lattes, Université Paul Sabatier, France
- [P3.49] **Microfluidics as a tool to investigate a tip-streaming phenomenon**
L. Salkin*, M. Guémas, A. Saint-Jalmes, P. Panizza, L. Courbin, Institut de Physique de Rennes UMR, France
- [P3.50] **Characterization of superplasticizer behaviour by atomic force microscopy**
L. Ferrari*, J. Kaufmann, F. Winnefeld, Empa, Switzerland
- [P3.51] **Surface active ionic liquids: Importance of the alkyl group length in the micellization properties of 1-alkyl-3-(n-hexadecyl)imidazolium chlorides**
P.D. Galgano*, O.A. El Seoud, University of São Paulo, Brazil
- [P3.52] **Friction-controlled bending solitons as folding pathway toward colloidal clusters**
N. Casic^{*1}, S. Schreiber¹, P. Tierno², W. Zimmermann¹, T.M. Fischer¹, ¹Universität Bayreuth, Germany, ²Universitat de Barcelona, Spain
- [P3.53] **Effect of the pseudo-ternary complex (nuclear localization signal peptide/ DNA/cationic liposomes) for tuberculosis gene treatment**
R.S. Rosada², C.L. Silva², C.R. Nakaie³, M.H.A. Santana¹, L.G. de la Torre^{*1}, ¹State University of Campinas, Brazil, ²University of São Paulo, Brazil, ³Federal University of São Paulo, Brazil
- [P3.54] **Characterisation of functionalized accurel® hydrophobic support and its use for selective adsorption for amino acids**
K. Singh^{*1}, J. S. Parihar², V.K. Singh¹, R. Bharose¹, S.K. Verma¹, A. Suman¹, ¹University of Lucknow, India, ²Maharaja College, India

- [P3.55] **Self-assembling glycine compounds in foam films**
I. Grozev¹, R. Todorov¹, E. Mileva^{*1}, ¹*Bulgarian Academy of Sciences, Bulgaria*
- [P3.56] **Impact of aphiphilic nanostructures on rheology of interfacial layers and foam-film drainage**
B. Soklev, D. Arabadzhieva, P. Tchoukov, E. Mileva^{*}, *Bulgarian Academy of Sciences, Bulgaria*
- [P3.57] **Passive microrheology: Non contact measurement of viscoelastic properties of biopolymers**
C. Tisserand, M. Fleury, L. Brunel, P. Bru, G. Meunier, Y. Lefeuvre^{*}, *Formulaction, France*
- [P3.58] **Formation mechanism of self-assembled composite micelles for mesostructured carbon materials: Studies by dynamic light scattering and ¹H NMR relaxation time measurements**
J. Parmentier^{*}, S. Schlienger, C. Ducrot-Boisgontier, J.L. Guth, L. Delmotte, *IS2M, France*
- [P3.59] **GOLD NANO-PARTICLES SUPPORTED ON COBALT OXIDE FOR GAS PHASE HYDROFORMYLATION OF PROPYLENE**
S. Nomoto^{*1,2}, T. Takei^{1,2}, M. Haruta^{1,2}, ¹*Tokyo Metropolitan University, Japan*, ²*JST-CREST, Japan*
- [P3.60] **PREPARATION OF PALLADIUM NANOPARTICLES EMBEDDED IN POROUS CONJUGATED POLYMERS FOR THE SELECTIVE HYDROGENATION OF NITROSTYRENE**
Y. Onuma^{*1,3}, T. Ishida^{1,3}, T. Akita^{2,3}, M. Haruta^{1,3}, ¹*Tokyo Metropolitan University, Japan*, ²*AIST, Japan*, ³*JST-CREST, Japan*
- [P3.61] **Reversible sorption and storage of CO₂ with nanoscale γ -AlO(OH) hollow spheres**
S. Simonato^{*}, C. Feldmann, *Karlsruhe Institute of Technology (KIT), Germany*
- [P3.62] **n-/p-doped Tin Oxide as a Nanoscaled Transparent Conductive Oxide**
S. Wolf^{*}, C. Feldmann, *Karlsruhe Institute of Technology (KIT), Germany*
- [P3.63] **Adsorption performances of mesoporous activated carbon prepared from waste rubber tire and activated carbon for a hazardous azo dye- Acid Blue 113**
V.K. Gupta^{*}, A. Nayak, *Indian Institute of Technology Roorkee, India*
- [P3.64] **Functional materials from emulsions stabilized by stimulus-responsive colloidal particles**
T. Ngai, *The Chinese University of Hong Kong, China*
- [P3.65] **Polymorphic behavior and hydrophile-lipophile balance of lipid nanoparticles for improving drug delivery**
P. Severino^{*1,2}, E. Souto^{2,3}, M.H. Santana¹, ¹*University of Campinas, Brazil*, ²*Fernando Pessoa University, Portugal*, ³*Institute of Biotechnology and Bioengineering, Portugal*
- [P3.66] **Smarter soft particles by post modification**
N. Sahiner^{*}, O. Ozay, *Canakkale Onsekiz Mart University, Turkey*
- [P3.67] **Inversion of particle-stabilized emulsions to form high internal phase emulsions**
G. Sun^{*}, N.T. Shatin, *The Chinese University of Hong Kong, Hong Kong*
- [P3.68] **Surface-enhanced Raman scattering studies of methyl orange based on AgBr colloids prepared by using electrolysis method**
M. Si^{*1}, R. Liu¹, D. Zhang², Z. Liu², ¹*Chuxiong Normal University, China*, ²*Yunnan Normal University, China*
- [P3.69] **Colloidal behaviour of TiO₂ nanoparticles and adsorption of Se(IV): Experimental and modelling**
A. Benedicto^{*}, T. Missana, *CIEMAT, Spain*
- [P3.70] **Structure and properties of YBa₂Cu₃O_{7- δ} superconductor doped with CdO nanoparticles**
M. Zargar Shoushtari^{*}, A. Echresh, *Shahid Chamran Univesity of Ahvaz, Iran*
- [P3.71] **Study on modifying surface of nano-sized colloidal silica with magnesium cations**
A. Karami, *Inorganic Chemistry Research Group, Iran*
- [P3.72] **Arsenate removal from aqueous solutions by Mg/Al layered double hydroxides with different nitrate orientations**
C.H. Liu^{*1}, Y.H. Chuang^{1,3}, S.L. Wang², M.K. Wang¹, ¹*National Taiwan University, Taiwan*, ²*National Chung-Hsing University, Taiwan*, ³*Tea Research and Extension Station, Taiwan*
- [P3.73] **Removal of naphthalene from aqueous solution by chemical surfactant and bio-surfactant intercalated with layered double hydroxides (LDHs)**
Y.H. Chuang^{*1,4}, C.H. Liu¹, Y.M. Tzou², J.S. Chang³, P.N. Chiang¹, M.K. Wang¹, ¹*National Taiwan University, Taiwan*, ²*National Chung-Hsing University, Taiwan*, ³*National Cheng Kung University, Taiwan*, ⁴*Tea Research and Extension Station, Taiwan*
- [P3.74] **Photoluminescence from SnO_x/Sn nanoparticle array produced on solid supported phospholipid multilayer**
H.H. An, J.H. Lee, H.S. Kim, Y.H. Kim, D.K. Choi^{*}, C.S. Yoon, *Hanyang University, South Korea*
- [P3.75] **Single-particle micro-rheology of photopolymerizable sol-gel materials for optical applications**
P. Domínguez-García^{*1}, M.A. Rubio¹, A.V. Velasco², M.P. Hernández-Garay², M.L. Calvo², P. Cheven³, ¹*UNED, Spain*, ²*UCM, Spain*, ³*National Research Council of Canada, Canada*

- [P3.76] **Electro-rheological effect in colloidal suspensions of polysilsesquioxane (POSS) functionalized with mercaptan**
J.A. Marins, K. Dahmouche*, B.G. Soares, *Federal University of Rio de Janeiro (UFRJ), Brazil*
- [P3.77] **Magneto-responsive liquid crystalline cellulose derivative solutions**
S.A. Vshivkov*, A.G. Galjas, *Ural State University, Russia*
- [P3.78] **Heteroflocculation behaviour of mixed-charge poly(NIPAM) microgel dispersions**
J.B. Thorne*, M.J. Snowden, *University of Greenwich, UK*
- [P3.79] **The influence of cross-linker on shell cross-linked micelles self-assembled from poly(*t*-butyl acrylate)-*b*-poly(2-dimethylamino)ethyl methacrylate**
X. Zhang*, S. Yang, J. Ma, *Donghua University, China*
- [P3.80] **Electrochemical study of surface active material in atmospheric aerosols**
Z. Kozarac¹, S. Frka¹, J. Dautovic¹, G. Kiss², A. Hoffer², ¹*Rudjer Boskovic Institute, Croatia*, ²*University of Pannonia, Hungary*
- [P3.81] **Adsorption properties of surface active substances in the natural sea surface microlayer**
S. Frka*, Z. Kozarac, B. Cosovic, *Rudjer Boskovic Institute, Croatia*
- [P3.82] **Field-induced orientational order of liquid crystalline clay suspensions and clay/polymer composites**
E. Paineau¹, I. Dozov², P. Davidson², C. Baravian³, P. Levitz⁴, L.J. Michot¹, ¹*Nancy University - INPL, France*, ²*University of Paris-Sud, France*, ³*Nancy University - UHP, France*, ⁴*Ecole Polytechnique, France*
- [P3.83] **Stimuli responsive magnetic microgels prepared using sterically stabilized water based magnetic nanofluid**
R. Turcu*, I. Craciunescu, I. Turcu, A. Nan, M. Mic, L. Rednic, *National Institute R&D of Isotopic and Molecular Technologies Cluj-Napoca, Romania*
- [P3.84] **Modeling of sustained protein release from aptamer-modified hydrogel**
T.H. Fan*, B. Soontornworajit, M. Karzar-Jeddi, Y. Wang, *University of Connecticut, USA*
- [P3.85] **Preparation and applications of gold nanoparticles through autoredution of gold ions in the presence of fluoroalkyl end-capped oligomeric aggregates**
H. Sawada*, K. Takahashi, T. Tsuzuki-ishi, *Hirosaki University, Japan*
- [P3.86] **Effects of bio-derived additive properties of oil-in-water emulsions**
V.N. Lad*, Z.V.P. Murthy, S. V. *National Institute of Technology, India*
- [P3.87] **Photo-reactive surfactants as functional tools for synthesis of nanomaterials in colloidal media.**
R.J. de Oliveira^{1,2}, A. Galembeck², J. Eastoe¹, ¹*University of Bristol, UK*, ²*Federal University of Pernambuco, Brazil*
- [P3.88] **Colloidal stability loss with increasing dilution of polar carrier based magnetic nanocolloids**
V. Socoliuc^{1,2}, A. Taculescu², C. Daia², L. Vekas², ¹*"Petru Poni" Institute of Macromolecular Chemistry, Romania*, ²*Romanian Academy, Romania*
- [P3.89] **Role of Zn₃P₂ in the hydrothermal growth of ZnO particles**
M. Peiteado, T. Jardiel, F. Rubio, M. Verde, B. Ferrari, A.C. Caballero*, *Instituto de Ceramica y Vidrio, Spain*
- [P3.90] **Synthesis of polymer composite dumbbells asymmetrically incorporating an inorganic sphere**
D. Nagao*, K. Hayasaka, M. Sugimoto, M. Konno, *Tohoku University, Japan*
- [P3.91] **High performance humidity sensor based on ZrO₂ nanorods**
Z.Y. Wang*, Y. Lu, L.Y. Shi, S. Yuan, Y. Zhao, M.H. Zhang, *Shanghai University, China*
- [P3.92] **Concentrated ceramic colloidal gelling with PEO-PPO-PEO triblock copolymers for three dimensional direct-ink-writing**
A. Kondo*, H. Abe, M. Naito, *Osaka University, Japan*
- [P3.93] **Connecting sticky ends: Numerical study of DNA-mediated colloidal interactions and phase behavior**
M.E. Leunissen¹, D. Frenkel¹, ¹*FOM Institute AMOLF, The Netherlands*, ²*University of Cambridge, UK*
- [P3.94] **Adsorption of Cadmium (II) and Zinc (II) on boron industry waste from aqueous solution: Batch and fixed-bed system studies**
N. Atar^{1,2}, A. Olgun¹, S. Wang², ¹*University of Dumlupinar, Turkey*, ²*Curtin University of Technology, Australia*
- [P3.95] **Fabrication of dimer of silver nanoparticles for surface enhanced raman scattering**
H. Kodama*, D. Yoshioka, H. Suzuki, T. Takahagi, H. Sakaue, *Hiroshima University, Japan*
- [P3.96] **Effect of core volume on the SERS intensity in star-shaped nanocrystals**
P. Aldeanueva-Potel¹, E. Carbó-Argibay¹, S. Barbosa¹, N. Pazos-Pérez^{1,2}, J. Pérez-Juste¹, I. Pastoriza-Santos¹, ¹*Universidad de Vigo, Spain*, ²*University of Bayreuth, Germany*

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- [P3.97] **Formation of cysteine, zwitterionic amino acid, terminated monolayers on polycrystalline tin surface via nanoparticle junction**
N. Atar^{*1}, I. Ustundag¹, R. Guzel², M.O. Caglayan³, A. Olgun¹, Z. Ustundag¹, ¹University of Dumlupinar, Turkey, ²Dicle University, Turkey, ³Cumhuriyet University, Turkey, ⁴Kyrgyz-Turk Manas University, Kyrgyzstan, ⁵Ankara University, Turkey
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- [P3.98] **Synthesis of nanotube networks coated with a magnetic material**
C. Mateo-Mateo^{*1}, F. Rivadulla², M.A. Correa-Duarte¹, L.M. Liz-Marzan¹, ¹Universidade de Vigo, Spain, ²Universidade de Santiago de Compostela, Spain
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- [P3.99] **Fluorophore labelled smart polymers**
S. Jabeen, B. Alexander*, L. Benez, *University of Greenwich, UK*
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- [P3.100] **Dynamic electrophoresis in realistic salt-free concentrated suspensions. Non-equilibrium dissociation-association processes.**
E. Ruiz-Reina*, L. Lechuga, F. Carrique, *Universidad de Málaga, Spain*
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- [P3.101] **Electrodeposition of composite silica/latex particles onto metallic substrates and polythiophene films**
A.F. Monnin, C.C. Buron, L. Guyard, M. Euvrard*, C. Filiatre, *Université de Franche-Comté, France*
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- [P3.102] **The influence of particle volume fraction on the colloidal stability of highly concentrated magnetic nanofluids**
D. Susan-Resiga^{1,2}, V. Socoliuc^{3,1}, T. Boros⁵, T. Borbath⁵, O. Marinica⁴, L. Vekas^{*1}, ¹Center for Fundamental and Advanced Technical Research, Romania, ²West University of Timisoara, Romania, ³"Petru Poni" Institute of Macromolecular Chemistry, Romania, ⁴University Politehnica Timisoara, Romania, ⁵Roseal Co., Romania
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- [P3.103] **Mechanical strength and release properties of silica microcapsules produced via a surfactant-free emulsion synthesis**
R. Allen*, R. Mercade-Prieto, Z. Zhang, J.A. Preece, D. York, T. Goodwin, ¹University of Birmingham, UK
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- [P3.104] **A novel adsorbent for arsenite removal**
C.C. Wu^{*1}, J.L. Chen¹, C.L. Chen¹, M.J. Wei¹, M.W. Wan², C.C. Kan², ¹Feng Chia University, Taiwan, ²Chia Nan University of Pharmacy and Science, Taiwan
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- [P3.105] **Formation and functionality of whey protein isolate - (κ -, ι -, and λ -type) carrageenan electrostatic complexes**
A.K. Stone*, M.T. Nickerson, *University of Saskatchewan, Canada*
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- [P3.106] **Comparison of latex, gold and motmorillonite colloid transport in a granite fracture: Study of retention processes.**
N. Albarran, T. Missana, U. Alonso, M. García-Gutiérrez, A. Benedicto*, T. López, *CIEMAT, Spain*
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- [P3.107] **Pickering emulsions stabilized by soft and responsive microgels**
M. Destribats, V. Lapeyre, M. Wolfs, F. Leal-Calderon, V. Ravaine*, V. Schmitt, *University of Bordeaux, France*
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- [P3.108] **Adsorption of synthetic surfactants on shungite**
A.V. Sineva*, A.M. Parfenova, *Lomonosov Moscow State University, Russia*
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- [P3.109] **Passive microrheology: Non intrusive measurement of the emulsion stability**
C. Tisserand, M. Fleury, L. Brunel, P. Bru, G. Meunier, Y. Lefeuvre*, *Formulation, France*
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- [P3.110] **Filler network evolution induced by biopolymer transition of conformation in nanocomposite hydrogels**
F. Carn¹, F. Boué², M. Djabourov^{*3}, N. Steunou⁴, E. Buhler¹, ¹UMR CNRS-Université Paris Diderot, France, ²Laboratoire Léon Brillouin, France, ³Laboratoire de Physique Thermique, France, ⁴UMR CNRS-Université de Versailles, France
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- [P3.111] **Organic pollutants removal from 2,4,6-trinitrotoluene (TNT) red water using low cost activated coke**
M. Zhang*, Q. Zhao, Z. Ye, *Peking University, China*
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