

WORKSHOP

“ADVANCED MATERIALS”



10-13 SEPTEMBER 2017



FESTA VIA PONTICA, POMORIE

BULGARIA

Workshop
“Advanced Materials”
10th - 13th September, 2017
Pomorie, Bulgaria

Program

Sunday, 10th September

17:00	Opening – Georgi Vayssilov
17:10	Francesc Viñes
PL1	“Catalysts and catalysis through methods on models”
17:50	Hristiyan Aleksandrov
OP1	“Modeling of zeolite and metal systems relevant for catalytic applications: a theoretical study”
18:10	Lorena Vega
SO1	“On the accuracy of density functionals in describing transition metal surface properties”
18:20	Oriol Piqué
SO2	“C poisoning on noble and Pt-group metals”
18:30	Nadezhda Angelova
SO3	“Iron and aluminium based mixed nanostructured hydroxyphosphates as potential vaccine adjuvants: preparation and physicochemical characterization”
18:40	Antoan Rangelov
SO4	“Formation and characterization of inclusion complexes based on Starches”
19:00	Dinner

Monday, 11th September

09:00	Kai Zhang
PL2	“Nanostructured organic semiconductors for visible light photocatalysis”
09:40	Anela Ivanova
OP2	“Directed molecular design of organic light emitters”
10:00	Kai S. Exner
OP3	“Free energy diagrams from theory and experiment in electrocatalysis ”
10:20	Petko Petkov
OP4	“Breathing control by conformational isomerism in DUT-8(Ni): competition of strain against London dispersion ”
10:40	Coffee Break
11:10	Tony Spassov
OP5	“Nanoporous metals by selective dissolution of amorphous alloys ”
11:30	Petar Georgiev
OP6	“Acceleration effect of metal ions with smaller reduction potentials on the rate of citrate synthesis of noble gold and silver nanoparticles growth”
11:50	Martin Tsvetkov
OP7	“Some results on ¹⁷² Lu and ¹⁷² Hf doped MFe ₂ O ₄ (M= Zn, Ni, Co) obtained by time differential perturbed angular correlations, TDPAC, measurements”

12:10 OP8	Georgi Yordanov "Surface plasmon resonance studies of interactions between blood plasma proteins and nanoparticle drug carriers "
12:30 SO5	Ana Koleva "A new method for the synthesis of bis-2-oxo-chromans"
12:45	Lunch
15:20 OP9	Todor Dudev "α-Cyclodextrin: How effectively can its hydrophobic cavity be hydrated?"
15:40 OP10	Stefan Tsakovski "Impact of pH and inorganic ions on pharmaceuticals toxicity: environmental relevant case study"
16:00 OP11	Stoyan Gutsov "Aerogels - new materials with promising applications"
16:20 SO6	Gergana Gocheva "Structural characterization of folic acid and antifolates in aqueous solution"
16:30	Coffee Break
17:00 PL3	Markus Bannwarth "Monitoring crack appearance and healing in transparent coatings with damage self-reporting nanocapsules"
17:40 OP12	Elena Vasileva "Polyzwitterionic hydrogels for wound healing applications"
18:00 OP13	Aleksey Vasilev "Novel fluorogenic dsDNA binders. Synthesis by environmentally benign procedures"
18:20 OP14	Marta Reig "Molecular design of carbazole-based blue emitters for OLEDs"
18:40 SO7	Nikola Burdzhiev "Synthesis of substituted pyridines with application in metal-coordinated supramolecular assemblies"
19:00	Dinner

Tuesday, 12th September

09:00 OP15	Nikolay Denkov "Efficient self-emulsification via cooling-heating cycles"
09:20 OP16	Slavka Tcholakova "Preparation of porous materials by using direct foaming method"
09:40 OP17	Zahari Vinarov "Drug-loaded surfactant micelles in bio-relevant dissolution media: Impact of surfactant-bile interactions on drug solubility "
10:00 OP18	Svetoslav Anachkov "Rough raspberry particles: Wetting & universal emulsion stabilization"
10:20 SO8	Mihail Georgiev "Hardening of particle/water/oil three-phase dispersions due to capillary bridges with applications for new products and materials"
10:30	Coffee Break
11:00 OP19	Krasimir Vasilev "Nanoengineered plasma polymer films for biomedical applications "

11:20 OP20	Gergana Radulova "Surface shear rheology of adsorption layers from the protein hydrophobin and its mixtures with other proteins: experiment and theoretical model"
11:40 OP21	Anife Ahmedova "Coordination nano-capsules with improved therapeutic potential for cancer treatment"
12:00 OP22	Stanislava Yordanova "Naphthalimide derivatives - optical sensors and microbiological activities"
12:20- OP23	Mihail Avramov Development of underwater camera for precise ship inspection
12:45	Lunch
15:00 OP24	Rumen Tomov "Nano engineering of SOFC electrodes by inkjet printing infiltration"
15:20 OP25	Elisaveta Mladenova "Geographical origin of wine as defined by trace elements content"
15:40 OP26	Petar Petrov "Photoactive imidazolidene NHC complexes"
16:00 SO 9	Rumen Lyapchev "On the way to better catalysts: increasing catalytic performance of palladium imidazo[1,5-a]quinolin-1(2H)-ylidene complexes by tuning properties of the carbene ligand"
16:10 OP27	Tsvetomil Voyslavov "Assessment the level of self-cleaning of the soils around the former metallurgical plant – Kremikovtsi"
16:30 OP28	Stoyan Smoukov "Approaching the theoretical limit in polymer supercapacitors and multidimensional performance optimization"
17:30	Social Program
19:00	Dinner

Wednesday, 13th September

09:00- 11:00	Steering Committee Meeting
09:00- 11:00	Discussions
12:00	Lunch