



Mikrosymposium sprawozdawcze 8-10 stycznia 2013



Wystąpienia ustne - 8 stycznia 2013 – Aula IChF PAN

Godzina	Prezentuje:	Tytuł wystąpienia
<i>sesji przewodniczy: Robert Kołos</i>		
9:00	Marcin Fiałkowski	Close-packed lattices of charged Janus-type nanoparticles at oil-water and air-water interfaces
9:30	Jan Paczesny	Three Steps of Hierarchical Self Assembly Toward a Stable and Efficient Surface Enhanced Raman Spectroscopy Platform
10:00	Izabela Kamińska	Reduced graphene oxide nanocomposite (switchable) surfaces
10:30	Przerwa kawowa	
<i>sesji przewodniczy: Marek Pietraszkiewicz</i>		
11:00	Jan Guzowski	Designing multiple emulsions
11:30	Tomasz Kamiński	Automated generation of libraries of nanoliters droplets
12:00	Krzysztof Churski	Rapid screening of antibiotic toxicity in an automated microdroplet system

12:30	Przerwa obiadowa	
<i>sesji przewodniczy: Kinga Suwińska</i>		
13:30	Krzysztof Noworyta	Nicotine, Cotinine, and Myosmine Determination Using Polymer Films of Tailor-Designed Zinc Porphyrins as Recognition Units for Piezoelectric Microgravimetry Chemosensors
14:00	Piotr Zarzycki	Interfacial/bulk charge transfer in environmentally relevant systems
14:30	Kamil Sokołowski	Towards a New Family of Photoluminescent Organozinc 8-Hydroxyquinolines with a High Propensity to Form Noncovalent Porous Materials
15:00	Jacek Waluk	Role of symmetry in spectroscopy and tautomerism of porphycenes



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Sesja posterowa (1) – 9 stycznia 2013 (10⁰⁰ - 13⁰⁰)

Lp.	Imiona i nazwiska autorów	Tytuł posteru	Zespół
1.	P. Zaleski-Ejgierd	Theoretical studies on iridium/hydrogen systems: high pressure stabilization and emergent forms of IrH ₂	1
2.	M. Sosnowska, P.S. Sharma, F. D'Souza, W. Kutner	Design and synthesis of new electroactive biotin derivatized bis(2,2'-bithienyl)methane conducting polymer for devising a DNA sensor	2
3.	T. Huynh, W. Kutner, F. D'Souza,	Watson-Crick type H-bonded molecularly imprinted polymer for capacitive impedometric determination of 5-fluorouracil	2
4.	K. Kędra-Królik, K. Suwińska	Correlation between thermochemical and solid state properties of some cytosine derivatives	3
5.	B. Leśniewska, K. Suwińska, A. W. Coleman	Supramolecular selfassembly of sulfonated calixarenes with organic ligands in solid state	3
6.	M. Siek, M. Łoś, J. Niedziółka-Jönsson	Environmentally friendly electrodeposited LSPR-active platform for biosensing	4
7.	B. Kusiak, P. Bernatowicz, J. Gregorowicz, P. Korczyk	Aggregation behavior of SDS in hydrophilic ionic liquids	5
8.	M. Pietrzak, J. Dobkowski, A. Gorski, P.E. Hansen, F. Duus, J. Waluk	Photochromism investigated by the NMR spectroscopy – the case of b-thioxoketones	6
9.	T. Ratajczyk	Wzmocnienie sygnału magnetycznego rezonansu jądrowego za pomocą parawodoru	6
10.	M. Wszelaka-Rylik, P. Gierycz	The binding sites for metal ions in Human Serum Albumin - thermodynamic investigations	7

11.	M. Ceborska, M. Koźbiał, J. Lipkowski, M. Pietrzak, A. Troć, M. Zimnicka	Thermal analysis of α -, β - and γ -cyclodextrin complexes with folic acid	7
12.	I. Terekhova, M. Koźbiał, M. Wszelaka-Rylik, P. Gierycz	Thermodynamics of complex formation of benzoic acid with hydroxypropylated cyclodextrins in aqueous solution	7
13.	L. Stobiński, A. Małolepszy, M. Mazurkiewicz, K. J. Kurzydłowski	Funkcjonalne nanomateriały hybrydowe: TiO ₂ /MWCNTs (Functional hybrid nanomaterials: TiO ₂ /MWCNTs)	8
14.	M. Ceborska, M. Pietrzak, M. Zimnicka, A. Troć, M. Koźbiał, S. Pawłowska, J. Lipkowski	Investigation of folic acid complexes with native and modified cyclodextrins	8
15.	M. Leszczynski, K. Zelga, I. Justyniak, J. Lewinski	Alkylzinc Derivatives of a Bicyclic Guanidine: from molecular transformations towards advanced precursors and materials	9
16.	L. Makolski, K. Zelga, I. Justyniak, J. Lewinski	Designing and synthesis of new model alkyloalkoxyzinc derivatives	9
17.	R. Balawender	Ensemble Spin DFT of Finite and Zero Temperature, and Related Chemical Reactivity Indices	9
18.	Z. Wrobel, I. Justyniak, J. Lewinski	Unprecedented reactivity alkoxyzinc carboxylates towards to siloxanes	9
19.	M. Tabaka, T. Kalwarczyk, R. Hołyst	Biologistics: how to optimize regulation of gene expression	10
20.	T. Kalwarczyk, M. Tabaka, R. Hołyst	Biologistics: Mobility in Cells	10
21.	S. Hou, S. Wieczorek, T. Kamiński, N. Ziebach, M. Tabaka, R. Hołyst, P. Garstecki	Study on the polymerization of caulobacter crescentus ftsz by dynamic light scattering	10
22.	A. Majcher, A. Lewandowska, A. Ochab-Marcinek, M. Tabaka, R. Hołyst	Taylor dispersion analysis for fast and accurate measurements of diffusion coefficient	10
23.	K. Sozanski, T. Kalwarczyk, R. Hołyst	Temperaure Dependence of Nanoviscosity	10

24.	A. Ochab-Marcinek, S. Wieczorek, N. Ziebac, R. Holyst	The effect of depletion layer on diffusion of nanoparticles in solutions of flexible and polydisperse polymers	10
25.	M. Czekalska, T. Kamiński, K. Tanuj Sapra, S. Jakiela, H. Bayley, P. Garstecki	Automated droplet microfluidic system for generation of lipid bilayers and for screening of activity of membrane proteins	11
26.	W. Stryczniewicz, S. Jakiela, P. Garstecki	Measurements of flow patterns in a single droplet	11
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28.	S. Makulska, S. Jakiela, P. Garstecki	Micro-rheological method for blood typing and cross testing	11
29.	O. Cybulski, P. Garstecki	Noise-induced self ordering of droplets in a microfluidic loop	11
30.	P. Jankowski, D. Ogończyk, W. Lisowski, P. Garstecki	Polyethyleneimine coating renders polycarbonate resistant to organic solvents	11
31.	P. Dębski, P. Garstecki	Separation of paramagnetic beads from droplets in microfluidic devices	11
32.	L. Derzsi, P. Garstecki	The effect of elasticity of the continuous liquid on droplet formation in flow focusing microfluidic devices	11
33.	P. Kalińska, M. Kustos, P. Jankowski, J. Michalski	Waga kwarcowa do zastosowań w mikrofluidyce	11
34.	M. E. Dolega, S. Jakiela, M. Rażew, A. Rakszewska, O. Cybulski, P. Garstecki	Zautomatyzowany układ mikroprzepływowy do szybkiego i ilościowego wyznaczania diagramów fazowych białek	11
35.	K. Winkler, M. Liszewska, A. Kamińska, T. Wojciechowski, M. Fiałkowski	Fabrication of gold microstructures via reaction between hydroxylamine and chloroauric acid	12
36.	P. Rogowski, W. Gózdź	Monte Carlo simulations of demixing in symmetrical binary mixtures. Finite size scaling study	13
37.	J. Pekalski, A. Ciach, N. Almarza	Self-assembly of nanoparticles into clusters and stripes	13
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39.	L. Latypova, P. Pieranski, W. Gózdź	The structure of the facets of the cubosomes and the lyotropic liquid crystals	13
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41.	I. Kamińska, R. Baran, D. Lisovytskiy, D. Łomot, A. Śrębowata, S. Dźwigaj	Catalytic conversion of trichloroethylene on nickel loaded beta zeolite	15
42.	P. Kędzierzawski, A. Mikołajczuk- Zychora, A. Borodziński, L. Stobiński	Nowy samoaktywujący się katalizator Ru/Pd/C do elektroutleniania kwasu mrówkowego w ogniwach paliwowych	15
43.	J.C. Colmenares, A. Magdziarz	Selective glucose oxidation on different Fe-doped (un)supported titania photocatalysts	15
44.	M. Bonarowska, Z. Karpiński	Synergistic effects in hydrodechlorination of tetrachloromethane over palladium-gold catalysts	15
45.	Z. Kaszukur	XRD study of uniformity and interdiffusion in PdCo and PdAg nanoalloys	16
46.	K. J. Rudziński, R. Szmigielski, I. Kuznietsova	Aqueous chemistry and kinetics of atmospheric isoprene, its descendants and sulfur dioxide	17



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Sesja posterowa (2) - 10 stycznia 2013 (10⁰⁰ - 13⁰⁰)

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48.	A. Malolepszy, M. Mazurkiewicz, L. Stobiński, B. Lesiak, L. Kövér, J. Tóth, B. Mierzwa	Multiwalled carbon nanotubes decorated with Pd/ZrO ₂ and Au-Pd/ZrO ₂	18
49.	T. Zakroczymski	Specificity of the electrochemical permeation method for determination of hydrogen diffusivity in metals	18
50.	I. Flis-Kabulska	Transient hydrogen entry into iron from NaOH solution upon applying anodic polarisation	18
51.	A. Gajek, Z. Wolarek, T. Zakroczymski	Transport of hydrogen in nitrated iron studied by electrochemical permeation technique	18
52.	M. Pisarek, A. Roguska, L. Marcon, M. Andrzejczuk, M. Janik-Czachor	Enhanced bioactivity of calcium phosphate coatings obtained by a direct electrodeposition from Hanks' solution on Ti surface	19
53.	J. W. Sobczak, W. Lisowski, M. Krawczyk, L. Ilieva, T. Tabakova, D. Andreeva,	Microstructural and chemical characterization of nanosized gold catalysts supported on ceria doped with CoOx	19

54.	M. Krawczyk, W. Lisowski, J. W. Sobczak, A. Jabłonski, E. Guzewicz, M. Godlewski, L. Wachnicki, T. A. Krajewski, G. Luka	Quantitative surface analysis of low-temperature grown ZnO	19
55.	M. Pisarek, A. Roguska, A. Kudelski, M. Hołdyński, M. Janik-Czachor,	Self-organized nanoporous Al ₂ O ₃ and TiO ₂ layers loaded with silver nanoparticles. Applications in SERS spectroscopy and medicine	19
56.	M. Krawczyk, W. Lisowski, J. W. Sobczak, A. Jabłonski	XPS quantification of ZnO(000-1) polar surfaces irradiated with 0.5-5 keV Ar ions	19
57.	M. Knor, A. Maranda-Niedbała, T. Jaroach, R. Nowakowski, M. Zagórska, A. Proń	STM samoorganizacji monowarstw nowych pochodnych ditiennyloctetrazyny i ditiennyloctiadiazolu na HOPG	21
58.	T. Jaroach, M. Knor, M. Dąbrowski, R. Nowakowski, M. Zagórska, A. Proń	Wpływ długości łańcucha i regioizomerii na organizacje nadcząsteczkową i przewodnictwo elektryczne cienkich warstw oligomerów dioktylotertiofenu	21
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60.	M. Jönsson-Niedziółka, A. Złoczewska	Carbon Nanotube Modified Electrodes for Biocatalytic Oxygen Reduction	23
61.	W. Adamiak	Effect of spontaneous anion exchange on electrochemically driven ion transfer across ITIES	23
62.	A. Złoczewska, M. Jönsson-Niedziółka, M. Opałto	Efficient Air-breathing Biocathodes in Zinc/Oxygen Batteries and Biofuel Cells	23
63.	W. Nogala, P. Kannan, S. Gawinkowski, M. Opałto	Electrodeposition of metal microarrays for optimization of catalysts and SERS supports	23
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70.	M. Turowski, C. Crépin, S. Douin, M. Gronowski, I. Couturier- Tamburelli, N. Piétri, A. Wasiak, R. Kołos	Vibrational spectroscopy of cyanodiacetylene – a combined Raman, IR, optical, UV, and theoretical study	25
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72.	A. Majka, J. Karpiuk	Low-temperature and time-resolved photophysical studies on asymmetrically substituted rhodamine lactones	26
73.	A. Listkowski, J. Ostapko, P. Matusiak, P. Pawlak, J. Nawrocki	Novel porphycenes and oxaporphycenes	26
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75.	V. Utochnikova, O. Pietraszkiewicz, M. Koźbiał, P. Gierycz, M. Pietraszkiewicz, N. Kuzmina	Thermal analysis of mixed-ligand complexes of luminescent lanthanide aromatic carboxylates	26
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77.	E. Karolak-Solarska, J. Karpiuk	Triarylmethane lactones: structural tuning of photophysical properties	26
78.	M. Nejbauer, Y. Stepanenko, M. Laskownicki, P. Skibiński, P. Wasylczyk, Cz. Radzewicz	Femtosekundowy wzmacniacz światłowodowy do mikroobróbki materiałów	27

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82.	V. Vetokhina, K. Dobek, M. Kijak, I.I. Kaminska, K. Muller, W.R. Thiel, J. Waluk, J. Herbich	Three modes of proton transfer in one chromophore: photoinduced tautomerization in 2-(1H-pyrazol-5-yl)pyridines, their dimers and alcohol complexes	28
83.	A. Gorski, A. Kelm, S. Gawinkowski, J. Herbich, J. Waluk	1H-pyrrolo[3,2-h]quinoline: a plasmonic probe and a benchmark molecule for reliable calculations of vibrational frequencies	29
84.	A. Sivanesan, E. Witkowska, A. Kamińska, Ł. Dziewit, W. Adamkiewicz	Antibiotic coated silver/gold hybrid substrate for SERS based identification of pathogenic bacteria	29
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90.	A. Kamińska, A. Sivanesan, E. Witkowska, J. Gołąb, D. Nowis, I. Dzieciulewski, J. L. Weyher, J. Waluk	Surface-enhanced Raman spectroscopy (SERS) diagnostic platform for the detection of DNA mutations	29

91.	J. Dobkowski, P. Wnuk, J. Buczyńska, M. Pszona, D. Frath, G. Ulrich, S. Mosquera-Vazquez, E. Vauthey, R. Ziessel, J. Waluk	Unusual spectroscopy of differently substituted anils and boranils	29
92.	A. Brzozowska, B. Kusiak, A. Kapuścińska-Bernatek, R. Luboradzki	Alternative Forms of Learning	Noblesse
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94.	A. Brzozowska, B. Kusiak, A. Kapuścińska-Bernatek, R. Luboradzki	Scientific Childhood	Noblesse