

**A Fizikai Kémiai és Anyagtudományi Tanszék publikációs listája
2015 január-december**

Tudományos közlemények

1. Deák Á, Janovák L, Tallósy SP, Bitó T, Sebők D, Buzás N, Palinko I, Dékány I, *Spherical LDH-Ag-montmorillonite heterocoagulated system with pH-dependent sol-gel structure for controlled accessibility of AgNPs immobilised on the clay lamellae*, LANGMUIR 31:(6) pp. 2019-2027. (2015)
2. Majzik A, Hornok V, Varga N, Tabajdi R, Dékány I, *Functionalized gold nanoparticles for 2-naphthol binding and their fluorescence properties*, COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS 48: pp. 244-251. (2015)
3. Varga, N, Benko, M, Sebok, D, Bohus, G, Janovak, L, Dékány, I, *Mesoporous silica core-shell composite functionalized with polyelectrolytes for drug delivery*, MICROPOROUS AND MESOPOROUS MATERIALS 213: pp.134-141. (2015)
4. Benko M, Varga N, Sebok D, Bohus G, Juhasz A, Dékány I, *Bovine serum albumin-sodium alkyl sulfates bioconjugates as drug delivery systems*, COLLOIDS AND SURFACES B-BIOINTERFACES 130: pp126-132. (2015)
5. Dániel Nesztor, Krisztina Bali Ildikó Y Tóth, Márta Szekeres, Etelka Tombácz, *Controlled clustering of carboxylated SPIONs through polyethylenimine*, JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 380: pp. 144-149. (2015)
6. Erzsébet Illés, Etelka Tombácz, Márta Szekeres, Ildikó Y Tóth, Ákos Szabó, Béla Iván, *Novel carboxylated PEG-coating on magnetite nanoparticles designed for biomedical applications*, JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 380: pp. 132-139. (2015)
7. Pusztai P, Haspel H, Tóth IY, Tombácz E, László K, Kukovecz Á, Kónya Z, *Structure-Independent Proton Transport in Cerium(III) Phosphate Nanowires*, ACS APPLIED MATERIALS & INTERFACES 7:(18) pp. 9947-9956. (2015)
8. Ildikó Y Tóth, Gábor Veress, Márta Szekeres, Erzsébet Illés, Etelka Tombácz, *Magnetic hyaluronate hydrogels: preparation and characterization*, JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 380: pp. 175-180. (2015)
9. Ildikó Y Tóth, Erzsébet Illés, Márta Szekeres, Etelka Tombácz, *Preparation and characterization of chondroitin-sulfate-A coated magnetite nanoparticles for biomedical applications*, JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 380: pp. 168-174. (2015)
10. Noémi Utry, Tibor Ajtai, Máté Pintér, Etelka Tombácz, Erzsébet Illés, Zoltán Bozóki, Gábor Szabó, *Mass specific optical absorption coefficients and imaginary part of the complex refractive indices of mineral dust components measured by a multi wavelength photoacoustic spectrometer*, ATMOSPHERIC MEASUREMENT TECHNIQUES 8: pp. 401-410. (2015)

11. M Szekeres, E Illés, C Janko, K Farkas, I Y Tóth, D Nesztor, I Zupkó, I Földesi, C Alexiou, E Tombácz, *Hemocompatibility and Biomedical Potential of Poly(gallic acid) Coated Iron Oxide Nanoparticles for Theranostic use*, JOURNAL OF NANOMEDICINE & NANOTECHNOLOGY 5: Paper 252. 7 p. (2015)
12. K Voitko, A Tóth, E Demianenko, G Dobos, B Berke, O Bakalinska, A Grebenyuk, E Tombácz, V Kuts, Y Tarasenko, M Kartel, K László, *Catalytic performance of carbon nanotubes in H₂O₂ decomposition: experimental and quantum chemical study*, JOURNAL OF COLLOID AND INTERFACE SCIENCE 437: pp. 283-290. (2015)
13. B Endrődi, J Mellár, Z Gingl, C Visy, C Janáky, *Molecular and Supramolecular Parameters Dictating the Thermoelectric Performance of Conducting Polymers: A Case Study Using Poly(3-alkylthiophene)s*, JOURNAL OF PHYSICAL CHEMISTRY C 119: pp. 8472-8479. (2015)
14. B Endrődi, G F Samu, D Fejes, Z Németh, E Horváth, A Pisoni, P Matus, K Hernádi, C Visy, L Forró, C Janáky, *Challenges and rewards of the electrosynthesis of macroscopic aligned carbon nanotube array/conducting polymer hybrid assemblies*, JOURNAL OF POLYMER SCIENCE PART B-POLYMER PHYSICS 53, pp. 1507-1518. (2015)
15. C Janáky, K Rajeshwar, *The Role of (Photo)electrochemistry in the Rational Design of Hybrid Conducting Polymer / Semiconductor Assemblies: From Fundamental Concepts to Practical Applications*, PROGRESS IN POLYMER SCIENCE 43: pp. 96-135. (2015)
16. E Peintler-Kriván, D Ungor, C Janáky, Z Németh, C Visy, *Optimization of the photoactivity of conducting polymer covered ZnO nanorod composite electrodes*, JOURNAL OF SOLID STATE ELECTROCHEMISTRY 19: pp. 37-44. (2015)
17. K Rajeshwar, A Thomas, C Janáky, *Photocatalytic Activity of Inorganic Semiconductor Surfaces: Myths, Hype, and Reality*, JOURNAL OF PHYSICAL CHEMISTRY LETTERS 6:(1) pp. 139-147. (2015)
18. G F Samu, K Pencz, C Janáky, K Rajeshwar, *On the electrochemical synthesis and charge storage properties of WO₃/polyaniline hybrid nanostructures*, JOURNAL OF SOLID STATE ELECTROCHEMISTRY 19:(9) pp.2741-2751. (2015)
19. Samu Gergely F, Visy Csaba, Rajeshwar Krishnan, Sarker Swagotom, Subramanian Vaidyanathan Ravi, Janáky Csaba, *Photoelectrochemical Infiltration of a Conducting Polymer (PEDOT) into Metal-Chalcogenide Decorated TiO₂ Nanotube Arrays*, ELECTROCHIMICA ACTA 151: pp. 467-476. (2015)
20. A Thomas, C Janáky, G F Samu, M N Huda, P Sarker, J P Liu, V van Nguyen, E H Wang, K A Schug, K Rajeshwar, *Time- and Energy-Efficient Solution Combustion Synthesis of Binary Tungstate (Ag₂WO₄, CuWO₄, ZnWO₄) Nanoparticles with Enhanced Photocatalytic Activity*, CHEMSUSCHEM 8: pp. 1652-1663. (2015)
21. PS Tóth, B Endrődi, C Janáky, C Visy, *Development of polymer - dopant interactions during electropolymerization, a key factor in determining the redox behaviour of conducting polymers*,

22. Veres Agnes, Menesi Judit, Janaky Csaba, Samu Gergely F, Scheyer Martin Karl, Xu Qisong, Salahioğlu Fatma, Garland Marc V, Dekany Imre, Zhong Ziyi, *New insights into the relationship between structure and photocatalytic properties of TiO₂ catalysts*, RSC ADVANCES 5:(4) pp. 2421-2428. (2015)
23. Varga E, Ferencz Zs, Oszkó A, Erdőhelyi A, Kiss J, *Oxidation states of active catalytic centers in ethanol steam reforming reaction on ceria based Rh promoted Co catalysts: An XPS study*, JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL 397: pp. 127-133. (2015)
24. Kutus B, Gácsi A, Pallagi A, Palinko I, Sipos P, Peintler G, *Comprehensive study on the dissolved Ca(OH)₂ in strongly alkaline solutions*, In: Eyer S (szerk.), 10TH INTERNATIONAL ALUMINA QUALITY WORKSHOP 19 – 23 APRIL 2015 PERTH WESTERN AUSTRALIA: Conference Proceedings . Konferencia helye, ideje: Perth, Ausztrália, 2015.04.19 -2015.04.23. Perth: AQW Inc, 2015. pp. 285-289. (ISBN:978-0-9943162-0-2)
25. Kutus B, Peintler G, Pallagi A, Palinko I, Sipos P, *Kalcium-cukorkarboxilát komplexek vizsgálata egyszerű fizikai-kémiai módszerekkel (Studying calcium–sugar carboxylate complexes by simple physico-chemical means)*, In: Kutus B, Gyarmati S (szerk.), Eötvözet III: Az Eötvös József és az Eötvös Loránd Kollégium III. közös konferenciáján elhangzott előadások . Konferencia helye, ideje: Szeged, Magyarország, 2014.05.09 -2014.05.10. Szeged: 2015. pp. 172-182. (ISBN:978-963-306-373-6)
26. Sipiczki M, Ádám AA, Anitics T, Csendes Z, Peintler G, Kukovecz Á, Kónya Z, Sipos P, Palinko I, *The catalytic epoxidation of 2-cyclohexen-1-one over uncalcined layered double hydroxides using various solvents*, CATALYSIS TODAY 241:(Part B) pp. 231-236. (2015)
27. Csankó K, Ruusuvoori KI, Tolnai B, Sipos P, Berkesi O, Palinko I, *Structural features of pyridylcinnamic acid dimers and their extended hydrogen-bonded aggregations*, JOURNAL OF MOLECULAR STRUCTURE 1090: pp. 25-33. (2015)
28. Bohner Biborka, Schusztér Gabor, Horváth Dezső, Toth Agota, *Morphology control by flow-driven self-organizing precipitation*, CHEMICAL PHYSICS LETTERS 631: pp. 114-117. (2015)
29. Gábor Schusztér, Erzsébet-Sára Bogya, Dezső Horváth, Ágota Tóth, Henrik Haspel, Ákos Kukovecz, *Liquid droplet evaporation from buckypaper: on the fundamental properties of the evaporation profile*, MICROPOROUS AND MESOPOROUS MATERIALS 209:(Suppl.) pp. 105-112. (2015), 10th International Symposium on the Characterization of Porous Solids. Granada, Spanyolország: 2014.05.11 -2014.05.14.
30. Schusztér Gabor, Potari Gabor, Horváth Dezső, Toth Agota, *Three-dimensional convection-driven fronts of the exothermic chlorite-tetrathionate reaction*, CHAOS 25:(6) Paper 064501. (2015)
31. Toth Agota, Horváth Dezső, *Diffusion-driven instabilities by immobilizing the autocatalyst in ionic systems*, CHAOS 25:(6) Paper 064304. (2015)

32. Puztai Peter, Toth-Szeles Eszter, Horvath Dezso , Toth Agota, Kukovecz Akos, Konya Zoltan, *A simple method to control the formation mechanisms of cerium phosphate architectures*, CRYSTENGCOMM, DOI: 10.1039/C5CE01404B(2015)
33. Ferstl, P, Mehl, S, Arman, MA, Schuler M, Toghan, A, László, B, Lykhach, Y, Brummel, O, Lundgren, E, Knudsen, J, Hammer, L, Schneider, MA, Libuda, J, *Adsorption and Activation of CO on Co₃O₄(111) Thin Films*, JOURNAL OF PHYSICAL CHEMISTRY C 119:(29), pp. 16688-16699. (2015)
34. Csizmadia T, Smausz T, Tapai C, Kopniczky J, Wang, X, Ehrhardt M, Lorenz P, Zimmer K, Orosz L, Varga E, Oszkó A, Hopp B, *Comparison of the Production of Nanostructures on Bulk Metal Samples by Picosecond Laser Ablation at Two Wavelengths for the Fabrication of Low-reflective Surfaces*, JOURNAL OF LASER MICRO NANOENGINEERING, 10:(2) pp. 110-118 (2015).
35. Halasi G, Bánsági T, Varga E, Solymosi F, *Photocatalytic Decomposition of Formic Acid on Mo₂C-Containing Catalyst*, CATALYSIS LETTERS, 145:(3) pp. 875-880. (2015)
36. Szabó T, Tóth V, Horvath E, Forro L, Szilagyi I, *Tuning the Aggregation of Titanate Nanowires in Aqueous Dispersions*, LANGMUIR 31:(1) pp.42-49. (2015)
37. Utry N, Ajtai T, Pinter M, Tombácz E, Illes E, Bozoki Z, Szabo G, *Mass-specific optical absorption coefficients and imaginary part of the complex refractive indices of mineral dust components measured by a multi-wavelength photoacoustic spectrometer*, ATMOSPHERIC MEASUREMENT TECHNIQUES 8:(1) pp.401-410. (2015)
38. Farkas A.P., Török P., Solymosi F., Kiss J., Kónya Z. *Investigation of the adsorption properties of borazine and characterisation of boron nitride on Rh(111) by electron spectroscopic methods*, Applied Surface Science 354 pp. 367-372. (2015)
39. Tibor Szabó, Emil Nyerki, Tünde Tóth, Richárd Csekő, Melinda Magyar, Endre Horváth, Klára Hernádi, Balázs Endrődi, Csaba Visy, László Forró, László Nagy, *Generating photocurrent by nanocomposites based on photosynthetic reaction centre protein*, PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS, 252:(11) pp. 2614-2619. (2015)
40. Gergo Peter Szekeres, Krisztian Nemeth, Aniko Kinka, Melinda Magyar, Balazs Reti, Erika Varga, Zsolt Szegletes, Andras Erdohelyi, Laszlo Nagy, Klara Hernadi, *Segmental nitrogen doping and carboxyl functionalization of multi-walled carbon nanotubes*, PHYSICA STATUS SOLIDI B-BASIC RESEARCH 252:(1) pp. 2472-2478. (2015)
41. Pavlovic M, Ádok-Sipiczki M, Horváth E, Szabó T, Forró L, Szilágyi I, *Dendrimer-stabilized titanate nanowire dispersions as potential nanocarriers*, JOURNAL OF PHYSICAL CHEMISTRY C 119:(44) pp. 24919-24926. (2015)
42. Bőrkora Bohner, Gábor Schusztér, Hideyuki Nakanishi, Dániel Zámbo, András Deák, Dezső Horváth, Ágota Tóth, István Lagzi, *Self-Assembly of Charged Nanoparticles by an Autocatalytic Reaction Front*, LANGMUIR 31:(44) pp. 12019-12024. (2015)
43. A Varga , B Endrődi , V Hornok , C Visy , C Janáky, *Controlled Photocatalytic Deposition of CdS Nanoparticles on Poly(3-hexylthiophene) Nanofibers: A Versatile Approach To Obtain Organic/Inorganic Hybrid Semiconductor Assemblies*, JOURNAL OF PHYSICAL CHEMISTRY C 119: p. 28020. (2015)
44. István Szabó, Gábor Czakó, *Rotational mode specificity in the F- + CH₃Y [Y = F and Cl] S_N2 reactions*, JOURNAL OF PHYSICAL CHEMISTRY A 119:(50) pp. 12231-12237. (2015)

45. E. Tombácz, R. Turcu, V. Socoliuc, L. Vékás, Magnetic iron oxide nanoparticles: Recent trends in design and synthesis of magnetoresponse nanosystems, *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*, 468:(3) pp. 442-453. (2015)
46. M. Tóth, E. Varga, A. Oszkó, K. Baán, J. Kiss, A. Erdőhelyi, *Partial oxidation of ethanol on supported Rh catalysts: Effect of the oxide support*, *JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL*, 411, pp. 377-387. (2015)
47. V. Hornok, E. Csapó, N. Varga, D. Ungor, D. Sebők, L. Janovák, G. Laczkó, I. Dékány, *Controlled syntheses and structural characterization of plasmonic and red-emitting gold/lysozyme nanohybrid dispersions*, *COLLOID AND POLYMER SCIENCE*, 294:(1), pp. 49-58. (2015)

Hazai előadások:

1. E. Tóth-Szeles, G. Schuszter, Á. Tóth, D. Horváth, Self-organization in flow-driven cobalt oxalate precipitation reaction, Japanese-Hungarian Workshop on Applied Mathematics and Complex Systems, 2015. július 25, Budapest
2. B. Bohner, G. Schuszter, D. Horváth, Á. Tóth, Flow-induced precipitation in the calcium carbonate system, Japanese-Hungarian Workshop on Applied Mathematics and Complex Systems, 2015. július 25, Budapest
3. T. Herczegh, G. Schuszter, Á. Tóth, D. Horváth, Determination of diffusion coefficients of ions in hydrogels, Japanese-Hungarian Workshop on Applied Mathematics and Complex Systems, 2015. július 25, Budapest
4. Tombácz E., Tóth I.: Mágneses nanorészecskék, teranosztikai lehetőségek, Mini workshop "Intelligens anyagok az orvos-biológiában" 2015.május 29. MTA Atommagkutató Intézet, Debrecen
5. Németh Veronika: A Reakciósebesség című SAILS tanegység kipróbálásának és értékelésének tapasztalatai, 13. Pedagógiai Értékelési Konferencia, 2015. április 23-25. Szeged
6. Németh Veronika: "Egy kiállítás képei" - avagy a kémia népszerűsítése, MKE 2. Nemzeti Konferencia, 2015. aug. 31. Hajdúszoboszló
7. Janovák László, Deák Ágota, Juhász Ádám, Dékány Imre: Szuperhidrofób szilika/ polimer hibrid vékonyrétegek nedvesedési és morfológiai tulajdonságai MTA Kolloidkémiai Munkabizottsági ülés, 2015. június 4-5, Velence
8. László Janovák, Ágota Deák, Nikolett Nánási, Barbara Gubán, Zoltán Veréb, János Varga, Imre Dékány, Lajos Kemény: Biocompatible and biodegradable polymeric scaffold and hydrogel based carriers for stem cell, VII. International Forum On Plastic Surgery, Szeged, 2015. szeptember 17–19.
9. Rauscher E, Bohner B, Schuszter G, Tóth Á, Áramlásvezérelt csapadékképződés a réz-foszfát és szilikát rendszerben, Kémiai Előadói Napok, 2015. okt. 26-28, Szeged.
10. Bába P., Horváth D, Tóth Á, Kemohidrodinamikai instabilitás vizsgálata mikrogravitációs környezetben, Kémiai Előadói Napok, 2015. okt. 26-28, Szeged.
11. Gehér-Herczegh T, Schuszter G, Tóth Á, Horváth D, Determination of diffusion coefficients of ions in hydrogels, Kémiai Előadói Napok, 2015. okt. 26-28, Szeged.
12. Janáky C., Az MTA-SZTE „Lendület Fotoelektrokémiai Kutatócsoport bemutatkozása, MTA Elektrokémiai Munkabizottság ülése
13. Janáky C., Fotoelektrokémiai módszerek a napenergia hasznosításában, MTA SZAB Fizikai Kémiai Munkabizottság Fény Éve Előadásorozat
14. Hursán D., CO₂ fotoelektrokémiai átalakítása tüzelőanyagokká N-tartalmú vezető polimer elektródokon, XXXVII. Kémiai Előadói Napok, Szeged

Külföldi előadások:

1. Á. Tóth, Morphology control by flow-driven precipitation, Emergence in Chemical Systems 4.0, 2015. június 22-27, Anchorage (USA)
2. Eszter Tóth-Szeles, Bread board tests for Maser-13, ESA Topical Team meeting on Chemo-hydrodynamic Patterns and Instabilities, 2015. 05.31-06.02, Alghero (I)
3. Á. Tóth, Morphology control by flow-driven precipitation, ESA Topical Team meeting on Chemo-hydrodynamic Patterns and Instabilities, 2015. 05.31-06.02, Alghero (I)
4. Á. Tóth, B. Bohner, E. Rauscher, D. Horváth, Morphology control by flow-driven precipitation, SysChem 2015, 2015. május 19-22, Rolduc (NL)
5. D. Horváth, G. Pótári, E. Tóth-Szeles, Á. Tóth, Dynamics of self-organized precipitate patterns driven by gravity current, XXXV. Dynamic Days Europe, 2015. 09.06-10, Exeter (GB)
6. Gabor Schuszter, Fabian Brau, and Anne De Wit, „Influence of pattern formation on carbon dioxide mineralization”, ESA TT Meeting on Chemo-hydrodynamic Patterns and Instabilities, Alghero, Italy (2015)
7. Gabor Schuszter, Fabian Brau, and Anne De Wit, „Experimental study of pattern formation during carbon dioxide mineralization”, Interpore Benelux day, Antwerpen, Belgium (02/10/2015)
8. C. Visy: “Conducting Polymer Based Thermoelectric Composites: Today and Possible Tomorrow – invited keynote lecture, WEEM 2015, Composite electroactive materials IV. Bad Herrenalb, 2015
9. T. Szabó, R. Mitea, M. Szekeres, I. Dékány, R.A. Schoonheydt, Immobilization of proteins in ultrathin clay films via layer-by-layer self-assembly, Euroclay 2015, 2015. júl., Edinburgh (UK).
10. G. Czakó, Dynamics of chemical reactions on ab initio potential energy surfaces, 14th Central European Symposium on Theoretical Chemistry (CESTC), Besztercebánya, Szlovákia, 2015. szeptember 6-9.
11. E. Illés, E. Tombácz, K. Farkas, M. Szekeres, I.Y. Tóth, Á. Szabó, B. Iván: Hemocompatibilization of magnetite nanoparticles by novel carboxyl-capped PEG shell for theranostics, 5th Zing Bionanomaterials Conference, 25–28 April 2015, Carvoeiro, Algarve, Portugal, Abstract Book p. 60.
12. E. Tombácz, M. Szekeres, E. Illés, I.Y. Tóth, D. Nesztor: Behavior of Carboxylated SPIONs at Nanobio Interfaces, 5th Zing Bionanomaterials Conference, 25–28 April 2015, Carvoeiro, Algarve, Portugal, Abstract Book p.71.
13. I.Y. Tóth, E. Illés, M. Szekeres, K. Farkas, I. Zupkó, E. Tombácz: Potentials of chondroitin-sulfate-A-coated core-shell magnetite nanoparticles for biomedical uses, 5th Zing Bionanomaterials Conference, 25–28 April 2015, Carvoeiro, Algarve, Portugal, Abstract Book p.75.
14. E. Tombácz, M. Szekeres, L. Vékás: A need for a harmonized physical, chemical and colloidal characterization of SPIONs, Workshop on Multifunctional nanoparticles, magnetically controllable fluids, complex flows, engineering and biomedical applications, 25-26 June, 2015, Timisoara, Romania
15. D. Nesztor, Gy. J. Jaics, E. Illés, P. de la Presa, E. Tombácz: Magnetic hyperthermia of single and multicore magnetite nanoparticles , Workshop on Multifunctional nanoparticles, magnetically controllable fluids, complex flows, engineering and biomedical applications, 25-26 June, 2015, Timisoara, Romania
16. E. Tombácz, M. Szekeres, E. Illés, I.Y. Tóth, D. Nesztor: Theranostic potential of carboxylated superparamagnetic iron oxide nanoparticles, 10th International Conference Processes in Isotopic and Molecules, Sept 23-25, 2015. INCDTIM Cluj-Napoca, Romania, Book of

Abstracts Plenary Pl-14 p.12.

17. J. Zaloga, R.P. Friedrich, I.Y.Toth, R.Tietze, I.Cicha, S.Lyer, G.Lee, E.Tombacz, C.Alexiou: tPA-conjugated Superparamagnetic Iron Oxide Nanoparticles for Targeted Thrombolytic Therapy, 10th International Conference Processes in Isotopic and Molecules, Sept 23-25, 2015. INCDTIM Cluj-Napoca, Romania, Book of Abstracts Oral T4-7 p.67.
18. E. Horváth, K. Baán, E. Varga, A. Oszkó, B. László, A. Erdőhelyi Dry reforming of CH₄ on Co/Al₂O₃ catalysts reduced at different temperatures International Conference on Carbon Dioxide Utilization 2015 Július 5 – 9 2015 Singapur
19. László Janovák, Szabolcs Péter Tallósy, Ágnes Veres, Ádám Juhász, Norbert Buzás, Imre Dékány: Development of Photocatalyst Particle Containing Polymer Hybrid Films for the Inactivation of Bacteria by Visible Light Third International Conference on Photocatalytic and Advanced Oxidation Technologies for the Treatment of Water, Air, Soil and Surfaces Gdansk, Poland, September 1-4, 2015
20. Báborka Bohner, Gábor Schuszter, Dezső Horváth, Ágota Tóth, Flow-induced precipitation in calcium oxalate and carbonate systems, Symposium on Complexity and Synergetics, 2015 július 8-11, Hannover (D)
21. Janáky C., Hybrid materials for energy oriented (photo)electrochemistry, University of Sheffield Department Seminar (Invited Lecture), Sheffield (Anglia)
22. Janáky C., Hybrid materials for energy oriented (photo)electrochemistry, University of Manchester Department Seminar (Invited Lecture), Manchester (Anglia)
23. Janáky C., Energy applications of (photo)electrochemically prepared organic/inorganic hybrid semiconductor assemblies, 249th National Meeting of the American Chemical Society, Denver (USA)
24. B. Endrődi, C. Visy, C. Janáky: Molecular and Supramolecular Parameters Dictating Thermoelectric Performance of Conducting Polymers: A Case Study Using Poly(3-alkylthiophenes), E-MRS Spring Meeting 2015, Lille, France
25. B. Endrődi, C. Visy, C. Janáky: What Dictates the Thermoelectric Performance of Conducting Polymers: A Case Study Using Poly(3-alkylthiophenes), 34th International Conference on Thermoelectrics & 13th European Conference on Thermoelectrics 2015, Dresden, Germany
26. Janáky C., (Photo)electrochemically prepared organic/inorganic hybrid assemblies for energy conversion and storage, 227th Meeting of The Electrochemical Society, Chicago (USA)
27. Janáky C., Electrosynthesis of hybrid organic/inorganic photocathodes for solar fuel generation, 250th National Meeting of the American Chemical Society, Boston (USA)
28. Kormányos A., Synthesis and characterization of p-type semiconductor inorganic nanocrystals for photoelectrochemical fuel generation, 250th National Meeting of the American Chemical Society, Boston (USA)
29. Janáky C., Time and energy efficient synthesis and characterization of p-type semiconductor nanostructures for photoelectrochemical fuel generation, Pacificchem 2015, USA
30. Janáky C., (Photo)Electrochemically Prepared Organic/Inorganic Hybrid Assemblies for Energy Conversion and Storage, Pacificchem 2015, USA

Külföldi poszter:

1. Gabor Schuszter, Fabian Brau, and Anne De Wit, „Experimental study of pattern formation during carbon dioxide mineralization” Journee Scientifique Annuelle de la Societe Royale de

- Chimie, Bruxelles, Belgium (08/10/2015)
2. K. Farkas, E. Illés, I. Y. Tóth, E. Tombácz, I. Földesi: Examination of hemocompatibility of magnetite nanoparticles designed for biomedical use, EuroMedLab Paris 2015, the 21st IFCC-EFLM European Congress of Clinical Chemistry and Laboratory Medicine, including the Journées Internationales de Biologie (JIB), June 21-25, 2015, Paris, France, Poster Abstracts–EuroMedLab Paris 2015 – Paris, 21-25 June 2015 • DOI 10.1515/cclm-2015-5004 Clin Chem Lab Med 2015; 53, Special Suppl, pp S1 – S1450, June 2015 • Copyright © by Walter de Gruyter • Berlin • Boston S175 Advanced technologies, new biomarker discovery, microparticles, exosomes... M003
 3. L. Óvári, G. Vári, S. Krick Calderon, Z. Kónya, J. Kiss, C. Papp, H.-P. Steinrück: Characterization of a Co/CeO₂(111) model catalyst and its interaction with ethanol near ambient pressure, Rideal Conference, Marc. 25-27, 2015. Berlin, Germany
 4. Martin Drost, Florian Vollnhals, Fan Tu, Imre Szent, János Kiss, Hans-Peter Steinrück, Hubertus Marbach: Fabrication of carbon-free cobalt nanostructures on porphyrin-covered TiO₂(110) using the precursor Co(CO)₃NO, 2nd Annual Meeting of COST Action CM 1301, CELINA Chemistry for Electron-Induced Nanofabrication 6th - 9th May, 2015, Bratislava, Slovakia
 5. Imre Szent, Martin Dorst, Florian Vollnhals, Fan Tu, Zoltán Kónya, János Kiss, Hans-Peter Steinrück, Hubertus Marbach: The interaction of Co(CO)₃NO precursor with porphyrin-covered TiO₂(110): preparation of carbon-free cobalt nanoparticles by FEBIP XVII International Workshop on Low-Energy Positron and Positron Physics and XIX International Symposium on Electron-Molecule Collision and Swarms, POSMOL 2015, 17-20 July 2015, Lisboa, Portugal
 6. János Kiss, Erika Varga, András Erdőhelyi, Albert Oszkó, Kornélia Baán, László Óvári, Christian Papp, Hans-Peter Steinrück, Zoltán Kónya Interaction of Rh and Co with ceria and their role in the ethanol steam reforming reaction: an XPS and FTIR study Rideal Conference 25-27 March 2015, Berlin, Germany
 7. Gergő Péter Szekeres, Krisztián Németh, A. Kinka, M. Magyar, Balázs Réti, Erika Varga, ZS. Szegletes, András Erdőhelyi, László Nagy, Klára Hernádi Controlled nitrogen doping and carboxyl functionalization of MWCNTs 28th International Winterschool on Electronic Properties of Novel Materials 7-14 March 2015, Kirchberg in Tirol, Austria
 8. Erika Varga, Péter Pusztai, Albert Oszkó, János Kiss, András Erdőhelyi, Zoltán Kónya Temperature induced structural changes of Co-Rh/ceria catalysts 31st European Conference on Surface Science 30 August-4 September 2015, Barcelona, Spain
 9. Gábor Vári, László Óvári, Christian Papp, Hans-Peter Steinrück, János Kiss, Zoltán Kónya: Growth and thermal effects of Co on CeO₂(111) European Conference on Surface Science, ECOSS-31, 2015, Aug. 31-4 July, Barcelona
 10. Z. Ferencz, K. Baán, R. Puskás, E. Varga, A. Oszkó, Z. Kónya, A. Erdőhelyi Characterization of Co/Al₂O₃ catalyst used in steam reforming of ethanol Eleventh International Symposium on Heterogeneous Catalysis 6 – 9 September 2015, Varna, Bulgaria
 11. L. Janovák, Á. Deák, E. Csapó, D. Sebők, Á. Juhász, N. Varga, N. Nánási, I. Dékány: Biocompatible hydrogel based nanostructured materials for controlled drug delivery 11th International Conference on Diffusion in Solids and Liquids [poster], Munich, Germany 22-26 June, 2015
 12. Ádám Juhász, Szabolcs Péter Tallósy, Ágnes Veres, László Janovák, Norbert Buzás, Imre Dékány: Adhesion and Inactivation of G(+) and G(-) Bacteria on Photocatalyst/ Polymer Hybrid Surfaces Third International Conference on Photocatalytic and Advanced Oxidation Technologies for the Treatment of Water, Air, Soil and Surfaces Gdansk, Poland, September 1-4, 2015
 13. Bórika Bohner, Gábor Schusztér, Dezső Horváth, Ágota Tóth, Pattern Formation Observed

During the Flow-driven Precipitation of Calcium Oxalate and Calcium Carbonate, ACS National Meeting & Exposition, 2015 Aug. 16-20, Boston (USA)

14. Janáky C., Photoelectrochemical Conversion of CO₂ to Useful Fuels: Opportunities and Challenges, 1st Gordon Research Conference on Carbon Capture, Utilization, and Storage
15. Samu G.F., Electrochemical Synthesis of WO₃/PANI Hybrid Materials, Workshop on the Electrochemistry of Electroactive Materials, Bad Herrenalb (Németország)
16. Kormányos A., Synthesis and Characterization of p-type Semiconductor Inorganic Nanocrystals for Photoelectrochemical Fuel Generation, Workshop on the Electrochemistry of Electroactive Materials, Bad Herrenalb (Németország)
17. Varga A., Photocatalytic deposition and characterization of CdS/P3HT nanofiber composites, Workshop on the Electrochemistry of Electroactive Materials, Bad Herrenalb (Németország)
18. Hursán D., Electrochemical Synthesis and Characterization of New Polyaniline-based Materials for CO₂ Capture and Conversion, Workshop on the Electrochemistry of Electroactive Materials, Bad Herrenalb (Németország)

Hazai poszter:

1. Bába P., Horváth D., Tóth Á. et al., Kemohidrodinamikai instabilitás mikrogravitációs vizsgálata, Magyar Űrkutatási Fórum, 2015 május, Sopron