

Publications 2010

Research Papers in Periodicals

Balcar, Hynek^G - Čejka, Jiří

Mesoporous Molecular Sieves as Advanced Supports for Olefin Metathesis Catalysts.

Macromolecular Symposia. Roč. 293, č. 1 (2010), s. 43-47. ISSN 1022-1360

Grant CEP: GA AV ČR IAA400400805; GA AV ČR KAN100400701

Balcar, Hynek^G - Bek, David - Sedláček, D. - Dědeček, Jiří - Bastl, Zdeněk - Lamač, Martin

RuCl₂(p-cymene)(PCy₃) immobilized on mesoporous molecular sieves as catalyst for ROMP of norbornene and its derivatives.

Journal of Molecular Catalysis A-Chemical. Roč. 332, 1-2 (2010), s. 19-24. ISSN 1381-1169

Barbatti, M. - Pittner, Jiří^G - Pederzoli, Marek - Werner, U. - Mitrić, R. - Bonačić-Koutecký, V. - Lischka, H.

Non-adiabatic dynamics of pyrrole: Dependence of deactivation mechanisms on the excitation energy.

Chemical Physics. Roč. 375, č. 1 (2010), s. 26-34. ISSN 0301-0104

Barek, J. - Kalvoda, Robert^G

An International Conference on "Modern Electroanalytical Methods 2009" Devoted to the 50th Anniversary of the Nobel Prize for Polarography.

Electroanalysis. Roč. 22, 17-18 (2010), s. 1923-1924. ISSN 1040-0397.

[International Conference on Modern Electroanalytical Methods. Prague, 09.12.2009-14.12.2009]

Barucha-Kraszewska, Justyna^G - Kraszewski, S. - Jurkiewicz, Piotr - Ramseyer, Ch. - Hof, Martin

Numerical studies of the membrane fluorescent dyes dynamics in ground and excited states.

Biochimica Et Biophysica Acta-Biomembranes. Roč. 1798, č. 9 (2010), s. 1724-1734. ISSN 0005-2736

Baše, Tomáš^G - Bastl, Zdeněk - Havránek, Vladimír - Lang, Kamil - Bould, Jonathan - Londesborough, Michael Geoffrey Stephen - Macháček, Jan - Plešek, Jaromír

Carborane-thiol-silver interactions. A comparative study of the molecular protection of silver surfaces.

Surface and Coatings Technology. Roč. 204, 16-17 (2010), s. 2639-2646. ISSN 0257-8972

Bek, David^G - Žilková, Naděžda - Dědeček, Jiří - Sedláček, J. - Balcar, Hynek

SBA-15 Immobilized Ruthenium Carbenes as Catalysts for Ring Closing Metathesis and Ring Opening Metathesis Polymerization.

Topics in Catalysis. Roč. 53, 3-4 (2010), s. 200-209. ISSN 1022-5528

Beranová, Lenka^G - Cwiklik, Lukasz - Jurkiewicz, Piotr - Hof, Martin - Jungwirth, Pavel

Oxidation Changes Physical Properties of Phospholipid Bilayers: Fluorescence Spectroscopy and Molecular Simulations.

Langmuir. Roč. 26, č. 9 (2010), s. 6140-6144. ISSN 0743-7463

Bhaskaran-Nair, Kiran^G - Demel, Ondřej - Pittner, Jiří

Multireference Mukherjee's coupled cluster method with triexcitations in the linked formulation: Efficient implementation and applications.

Journal of Chemical Physics. Roč. 132, č. 15 (2010), s. 154105. ISSN 0021-9606

Bouša, Milan^G - Lásková, Barbora - Zukalová, Markéta - Procházka, Jan - Chou, A. - Kavan, Ladislav

Polycrystalline TiO₂ Anatase with a Large Proportion of Crystal Facets (001): Lithium Insertion Electrochemistry.

Journal of the Electrochemical Society. Roč. 157, č. 10 (2010), A1108-A1112. ISSN 0013-4651

Brabec, Libor^G - Kočířík, Milan

Silicalite-1 Crystals Etched with Hydrofluoric Acid Dissolved in Water or Acetone.

Journal of Physical Chemistry C. Roč. 114, č. 32 (2010), s. 13685-13694. ISSN 1932-7447

Bureš, F. - Kulhánek, J. - Mikysek, T. - Ludvík, Jiří^G - Lokaj, J.

Branched charge-transfer chromophores featuring a 4,5-dicyanoimidazole unit.

Tetrahedron Letters. Roč. 51, č. 15 (2010), s. 2055-2058. ISSN 0040-4039

Campargue, A. - Wang, L. - Kass, S. - Mašát, Milan^G - Votava, Ondřej

Temperature dependence of the absorption spectrum of CH₄ by high resolution spectroscopy at 81 K: (II) The icosad region (1.49-1.30 μm).

Journal of Quantitative Spectroscopy and Radiative Transfer. Roč. 111, č. 9 (2010), s. 1141-1151. ISSN 0022-4073

Civiš, Svatopluk^G - Cihelka, Jaroslav - Matulková, Irena

Infrared diode laser spectroscopy.

Opto-Electronics Review. Roč. 18, č. 4 (2010), s. 408-420. ISSN 1230-3402

Civiš, Svatopluk^G - Matulková, Irena - Cihelka, Jaroslav - Kubelík, Petr

Time-resolved Fourier-transform infrared emission spectroscopy of Ag in the (1300-3600)-cm⁻¹ region: Transitions involving f and g states and oscillator strengths.

Physical Review. A. Roč. 82, č. 2 (2010), 022502. ISSN 1050-2947

Civiš, Svatopluk^G - Matulková, Irena - Cihelka, Jaroslav

Time-resolved Fourier-transform infrared emission spectroscopy of Au in the 1800-4000-cm⁻¹ region: Rydberg transitions.

Physical Review. A. Roč. 81, č. 1 (2010), 012510. ISSN 1050-2947

Cunha de Miranda, B. K. - Alcaraz, Ch. - Elhanine, M. - Noller, B. - Hemberger, P. - Fischer, I. - Garcia, G. A. - Soldi-Lose, H. - Gans, B. - Mendes, L. A. V. - Boyé-Péronne, S. - Douin, S. - Žabka, Ján^G - Botschwina, P.

Threshold Photoelectron Spectroscopy of the Methyl Radical Isotopomers, CH₃, CH₂D, CHD₂ and CD₃: Synergy between VUV Synchrotron Radiation Experiments and Explicitly Correlated Coupled Cluster Calculations.

Journal of Physical Chemistry A. Roč. 114, č. 14 (2010), s. 4818-4830. ISSN 1089-5639

Čapek, Libor^G - Dědeček, Jiří - Sazama, Petr - Wichterlová, Blanka

The decisive role of the distribution of Al in the framework of beta zeolites on the structure and activity of Co ion species in propane-SCR-NO_x in the presence of water vapour.

Journal of Catalysis. Roč. 272, č. 1 (2010), s. 44-54. ISSN 0021-9517

Čársky, Petr^G

Towards efficient ab initio calculations of electron scattering by polyatomic molecules: I. Efficient numerical quadrature of the UGT term.

Journal of Physics B-Atomic Molecular and Optical Physics. Roč. 43, č. 17 (2010), s. 175203. ISSN 0953-4075

Čársky, Petr^G

Towards efficient ab initio calculations of electron scattering by polyatomic molecules: II. Efficient evaluation of exchange integrals.

Journal of Physics B-Atomic Molecular and Optical Physics. Roč. 43, č. 17 (2010), s. 175204. ISSN 0953-4075

Černigoj, U. - Štangar, U. L. - Jirkovský, Jaromír^G

Effect of dissolved ozone or ferric ions on photodegradation of thiacloprid in presence of different TiO₂ catalysts.

Journal of Hazardous Materials. Roč. 177, 1-3 (2010), s. 399-406. ISSN 0304-3894

Das, H. S. - Weisser, F. - Schweinfurth, D. - Su, Ch. Y. - Bogani, C. - Fiedler, Jan^G - Sarkar, B.
Straightforward Synthesis of Substituted p-Quinones: Isolation of a Key Intermediate and Use as a Bridging Ligand in a Diruthenium Complex.

Chemistry - A European Journal. Roč. 16, č. 10 (2010), s. 2977-2981. ISSN 0947-6539

Demel, Jan - Kubát, Pavel - Jirka, Ivan - Kovář, P. - Pospíšil, M. - Lang, Kamil^G

Inorganic-Organic Hybrid Materials: Layered Zinc Hydroxide Salts with Intercalated Porphyrin Sensitizers.

Journal of Physical Chemistry C. Roč. 114, č. 39 (2010), s. 16321-16328. ISSN 1932-7447

Grant CEP: GA ČR GAP207/10/1447

Demel, J. - Čejka, Jiří^G - Štěpnička, P.

Palladium catalysts deposited on silica materials: Comparison of catalysts based on mesoporous and amorphous supports in Heck reaction.

Journal of Molecular Catalysis A-Chemical. Roč. 329, 1-2 (2010), s. 13-20. ISSN 1381-1169

Demel, Ondřej^G - Bhaskaran-Nair, Kiran - Pittner, Jiří

Uncoupled multireference state-specific Mukherjee's coupled cluster method with triexcitations.

Journal of Chemical Physics. Roč. 133, č. 13 (2010), s. 134106. ISSN 0021-9606

Drahokoupil, Jan^G - Hrabánek, Pavel - Zikánová, Arlette - Kočířík, Milan

Zeolite membrane - MFI.

Materials Structure in Chemistry, Biology, Physics and Technology. Roč. 17, 2a (2010), k77-k78. ISSN 1211-5894

Dryahina, Kseniya^G - Smith, D. - Španěl, Patrik

Quantification of methane in humid air and exhaled breath using selected ion flow tube mass spectrometry.

Rapid Communications in Mass Spectrometry. Roč. 24, č. 9 (2010), s. 1296-1304. ISSN 0951-4198

Durand, P. - Paidarová, Ivana^G

A non-linear dissipative model of magnetism.

EPL. Roč. 89, č. 6 (2010), s. 67004. ISSN 1286-4854

Frank, Otakar^G - Jehlička, J. - Víttek, P. - Juha, Libor - Hamplová, Věra - Pokorná, Zdeňka

Geochemie fullerénů.

[Geochemistry of Fullerenes.]

Chemické listy. Roč. 104, č. 8 (2010), s. 762-769. ISSN 0009-2770

Gál, Miroslav^G - Hromadová, Magdaléna - Pospíšil, Lubomír - Híveš, J. - Sokolová, Romana - Kolivoška, Viliam - Bulíčková, Jana

Voltammetry of hypoxic cells radiosensitizer etanidazole radical anion in water.

Bioelectrochemistry. Roč. 78, č. 2 (2010), s. 118-123. ISSN 1567-5394

Gil, B. - Košová, Gabriela^G - Čejka, Jiří

Acidity of MCM-58 and MCM-68 zeolites in comparison with some other 12-ring zeolites.

Microporous and Mesoporous Materials. Roč. 129, 1-2 (2010), s. 256-266. ISSN 1387-1811

Guerin, V. M. - Magne, C. - Pauporté, T. - Le Bahers, T. - Rathouský, Jiří^G

Electrodeposited Nanoporous versus Nanoparticulate ZnO Films of Similar Roughness for Dye-Sensitized Solar Cell Applications.

ACS Applied Materials and Interfaces. Roč. 2, č. 12 (2010), s. 3677-3685. ISSN 1944-8244

Gyepes, R. - Varga, V. - Horáček, Michal^G - Kubišta, Jiří - Pinkas, Jiří - Mach, Karel

Influence of the Ti-O-C Angle on the Oxygen-to-Titanium pi-Donation in [Cp-2*Ti(III)OR] Complexes.

Organometallics. Roč. 29, č. 21 (2010), s. 3780-3789. ISSN 0276-7333

Hallez, L. - Touyraz, F. - Hihn, J. Y. - Klíma, Jiří^G - Guey, J.-L. - Spajer, M. - Bailly, Y.

Characterization of HIFU transducers designed for sonochemistry application: Cavitation distribution and quantification.

Ultrasonics. Roč. 50, č. 2 (2010), s. 310-317. ISSN 0041-624X

Hatay, I. - Su, B. - Méndez, M. A. - Corminboeuf, C. - Khoury, T. - Gros, C. P. - Bourdillon, M. - Meyer, M. - Barbe, J.-M. - Ersöz, M. - Zálíš, Stanislav^G - Samec, Zdeněk - Girault, H. H.

Oxygen Reduction Catalyzed by a Fluorinated Tetraphenylporphyrin Free Base at Liquid/Liquid Interfaces.

Journal of the American Chemical Society. Roč. 132, č. 39 (2010), s. 13733-13741. ISSN 0002-7863

Herman, Zdeněk^G

POČÁTKY HMOTNOSTNÍ SPEKTROMETRIE U NÁS: HMOTNOSTNÍ SPEKTROMETRIE V ÚSTAVU FYZIKÁLNÍ CHEMIE AKADEMIE VĚD (ČÁST I).

[The Beginning of Mass Spectrometry in Czech Republic: Mass Spectrometry in Institute of Physical Chemistry of Academy of Sciences (Part I).]

Chemické listy. Roč. 104, č. 10 (2010), s. 962-966. ISSN 0009-2770

Horáček, J. - Paidarová, Ivana^G

On the calculation of resonances by means of analytic continuation in coupling constant.

Journal of Physics: Conference Series. Roč. 257, č. 1 (2010), 012002. ISSN 1742-6596

Horáček, Michal^G - Gyepes, R. - Merna, J. - Kubišta, Jiří - Mach, Karel - Pinkas, Jiří

Dinuclear titanium complexes with methylphenylsilylene bridge between cyclopentadienyl rings. Synthesis, characterization and reactivity towards ethylene.

Journal of Organometallic Chemistry. Roč. 695, č. 9 (2010), s. 1425-1433. ISSN 0022-328X

Horáček, Michal^G - Gyepes, R. - Císařová, I. - Kubišta, Jiří - Pinkas, Jiří - Mach, Karel

Synthesis and structure of dinuclear dimethylene- or 1,4-phenylene-linked bis(decamethyltitanoceneoxide) (Ti-III) complexes.

Journal of Organometallic Chemistry. Roč. 695, č. 21 (2010), s. 2338-2344. ISSN 0022-328X

Hoskocová, I. - Roháčová, J. - Dvořák, D. - Tobrman, T. - Záliš, Stanislav - Zvěřinová, R. - Ludvík, Jiří^G

Synthesis and electrochemical study of iron, chromium and tungsten aminocarbenes Role of ligand structure and central metal nature.

Electrochimica acta. Roč. 55, č. 27 (2010), s. 8341-8351. ISSN 0013-4686

Hovorka, Ondřej^G - Šubr, Vladimír - Větvička, David - Kovář, Lubomír - Strohalm, Jiří - Strohalm, Martin - Benda, Aleš - Hof, Martin - Ulbrich, Karel - Říhová, Blanka

Spectral analysis of doxorubicin accumulation and the indirect quantification of its DNA intercalation.

European Journal of Pharmaceutics and Biopharmaceutics. Roč. 76, č. 3 (2010), s. 514-524. ISSN 0939-6411

Hromadová, Magdaléna^G - Kolivoška, Viliam - Gál, Miroslav - Pospíšil, Lubomír - Sokolová, Romana - Valášek, Michal

Inclusion complex of α -cyclodextrin and the extended viologen dication: a model of an insulated molecular wire.

Journal of Inclusion Phenomena and Macrocyclic Chemistry. -, - (2010), s. 1-9. ISSN 0923-0750

Hromadová, Magdaléna^G - Kolivoška, Viliam - Sokolová, Romana - Gál, Miroslav - Pospíšil, Lubomír - Valášek, Michal

On the Adsorption of Extended Viologens at the Electrode|Electrolyte Interface.

Langmuir. Roč. 26, č. 22 (2010), s. 17232-17236. ISSN 0743-7463

Hsieh, Y. P. - Hofmann, M. - Farhat, H. - Barros, E. B. - Kalbáč, Martin^G - Kong, J. - Liang, C. T. - Chen, Y. F. - Dresselhaus, M. S.

Chiral angle dependence of resonance window widths in (2n+m) families of single-walled carbon nanotubes.

Applied Physics Letters. Roč. 96, č. 10 (2010), s. 103118. ISSN 0003-6951

Humpolíčková, Jana^G - Benda, Aleš - Macháň, Radek - Enderlein, J. - Hof, Martin
Dynamic saturation optical microscopy: employing dark-state formation kinetics for resolution enhancement.
Physical Chemistry Chemical Physics. Roč. 12, č. 39 (2010), s. 12457-12465. ISSN 1463-9076

Huranová, Martina^G - Ivani, Ivan - Benda, Aleš - Poser, I. - Brody, Y. - Hof, Martin - Shav-Tal, Y. - Neugebauer, K.M. - Staněk, David
The differential interaction of snRNPs with pre-mRNA reveals splicing kinetics in living cells.
Journal of Cell Biology. Roč. 191, č. 1 (2010), s. 75-86. ISSN 0021-9525

Jana, R. - Sarkar, B. - Bubrin, D. - Fiedler, Jan^G - Kaim, W.
Structure, electrochemistry and spectroscopy of a new diacylhydrazido-bridged diruthenium complex with a strongly near-infrared absorbing Ru^{III}Ru^{II} intermediate.
Inorganic Chemistry Communications. Roč. 13, č. 10 (2010), s. 1160-1162. ISSN 1387-7003

Janda, Pavel^G - Frank, Otakar - Bastl, Zdeněk - Klementová, Mariana - Tarábková, Hana - Kavan, Ladislav
Nanobubble-assisted formation of carbon nanostructures on basal plane highly ordered pyrolytic graphite exposed to aqueous media.
Nanotechnology. Roč. 21, č. 9 (2010), 095707. ISSN 0957-4484

Jirglová, Hana^G - Maldonado-Hódar, F. J.
Chemical Interactions of Surface-Active Agents with Growing Resorcinol-Formaldehyde Gels.
Langmuir. Roč. 26, č. 20 (2010), s. 16103-16109. ISSN 0743-7463

Káfuňková, Eva - Taviot-Guého, Ch. - Bezdička, Petr - Klementová, Mariana - Kovář, P. - Kubát, Pavel - Mosinger, Jiří - Pospíšil, M. - Lang, Kamil^G
Porphyrins intercalated in Zn/Al and Mg/Al layered double hydroxides: properties and structural arrangement.
Chemistry of Materials. Roč. 22, č. 8 (2010), s. 2481-2490. ISSN 0897-4756

Káfuňková, Eva^G - Lang, Kamil - Kubát, Pavel - Klementová, Mariana - Mosinger, Jiří - Šlouf, Miroslav - Troutier-Thuilliez, A. L. - Leroux, F. - Verney, V. - Taviot-Guého, Ch.
Porphyrin-layered double hydroxide/polymer composites as novel ecological photoactive surfaces.
Journal of Materials Chemistry. Roč. 20, č. 42 (2010), s. 9423-9432. ISSN 0959-9428

Kaim, A. - Sieger, M. - Greulich, S. - Sarkar, B. - Fiedler, Jan^G - Záliš, Stanislav
The 1,4-diazabutadiene/1,2-enediamido non-innocent ligand system in the formation of iridaheteroaromatic compounds: Spectroelectrochemistry and electronic structure.
Journal of Organometallic Chemistry. Roč. 695, č. 7 (2010), s. 1052-1058. ISSN 0022-328X

Kalbáč, Martin^G - Zólyomi, V. - Rusznyák, A. - Koltai, J. - Kürti, J. - Kavan, Ladislav
An Anomalous Enhancement of the A(g)(2) Mode in the Resonance Raman Spectra of C-60 Embedded in Single-Walled Carbon Nanotubes during Anodic Charging.
Journal of Physical Chemistry C. Roč. 114, č. 6 (2010), 2505-2511. ISSN 1932-7447

Kalbáč, Martin^G - Hsieh, Y. P. - Farhat, H. - Kavan, Ladislav - Hofmann, M. - Kong, J. - Dresselhaus, M. S.

Defects in Individual Semiconducting Single Wall Carbon Nanotubes: Raman Spectroscopic and in Situ Raman Spectroelectrochemical Study.

Nano Letters. Roč. 10, č. 11 (2010), s. 4619-4626. ISSN 1530-6984

Grant CEP: GA ČR GC203/07/J067; GA AV ČR IAA400400804; GA AV ČR IAA400400911; GA AV ČR KAN200100801; GA MŠk ME09060

Kalbáč, Martin^G - Kavan, Ladislav

Evaluation of defect concentration in doped SWCNT.

Physica Status Solidi B-Basic Solid State Physics. Roč. 247, 11-12 (2010), s. 2797-2800. ISSN 0370-1972

Grant CEP: GA ČR GC203/07/J067; GA ČR GAP204/10/1677; GA AV ČR IAA400400911; GA AV ČR IAA400400804; GA AV ČR KAN200100801; GA MŠk LC510; GA MŠk ME09060

Kalbáč, Martin^G - Kavan, Ladislav - Gorantla, S. - Gemming, T. - Dunsch, L.

Sexithiophene Encapsulated in a Single-Walled Carbon Nanotube: An In Situ Raman Spectroelectrochemical Study of a Peapod Structure.

Chemistry - A European Journal. Roč. 16, č. 38 (2010), s. 11753-11759. ISSN 0947-6539

Kalbáč, Martin^G - Kavan, Ladislav

The influence of doping on the Raman intensity of the D band in single walled carbon nanotubes.

Carbon. Roč. 48, č. 3 (2010), s. 832-838. ISSN 0008-6223

Grant CEP: GA ČR GC203/07/J067; GA AV ČR IAA400400911; GA AV ČR IAA400400804; GA AV ČR KAN200100801; GA MŠk LC510

Kalbáč, Martin^G - Reina-Cecco, A. - Farhat, H. - Kong, J. - Dresselhaus, M. S.

The Influence of Strong Electron and Hole Doping on the Raman Intensity of Chemical Vapor-Deposition Graphene.

ACS Nano. Roč. 4, č. 10 (2010), s. 6055-6063. ISSN 1936-0851

Kalbáč, Martin^G - Green, A. A. - Hersam, M. C. - Kavan, Ladislav

Tuning of Sorted Double-Walled Carbon Nanotubes by Electrochemical Charging.

ACS Nano. Roč. 4, č. 1 (2010), s. 459-469. ISSN 1936-0851

Kalbáčová, M. - Brož, A. - Kong, J. - Kalbáč, Martin^G

Graphene substrates promote adherence of human osteoblasts and mesenchymal stromal cells.

Carbon. Roč. 48, č. 15 (2010), s. 4323-4329. ISSN 0008-6223

Kavakli, C. - Schwederski, B. - Fiedler, Jan^G - Gudat, D. - Kaim, W.

Ligand-based Reduction in a Molecular Rectangle with Four Organoplatinum(IV) Vertices.

Zeitschrift für anorganische und allgemeine Chemie. Roč. 636, č. 1 (2010), s. 114-120. ISSN 0044-2313

Kavan, Ladislav^G - Bacsá, R. - Tunckol, M. - Serp, P. - Zakeeruddin, S. M. - Le Formal, F. - Zúkalová, Markéta - Graetzel, M.

Multi-walled carbon nanotubes functionalized by carboxylic groups: Activation of TiO₂ (anatase) and

phosphate olivines (LiMnPO₄; LiFePO₄) for electrochemical Li-storage.
Journal of Power Sources. Roč. 195, č. 16 (2010), s. 5360-5369. ISSN 0378-7753

Koo, J.-B. - Jiang, N. - Saravanamurugan, S. - Bejblová, Martina^G - Musilová, Zuzana - Čejka, Jiří - Park, S.-E.

Direct synthesis of carbon-templating mesoporous ZSM-5 using microwave heating.
Journal of Catalysis. Roč. 276, č. 2 (2010), s. 327-334. ISSN 0021-9517

Korshunov, A. - Heyrovský, Michael^G

Voltammetry of Aluminum Nanoparticles in Aqueous Media with Hanging Mercury Drop Electrode.
Electroanalysis. Roč. 22, 17-18 (2010), s. 1989-1993. ISSN 1040-0397.
[International Conference on Modern Electroanalytical Methods. Prague, 09.12.2009-14.12.2009]

Kovanda, F. - Jindrová, E. - Lang, Kamil^G - Kubát, Pavel - Sedláková, Zdeňka

Preparation of layered double hydroxides intercalated with organic anions and their application in LDH/poly(butyl methacrylate) nanocomposites.
Applied Clay Science. Roč. 48, 1-2 (2010), s. 260-270. ISSN 0169-1317

Kral, Teresa^G - Leblond, J. - Hof, Martin - Scherman, D. - Hersovici, J. - Mignet, N.

Lipopolythiourea/DNA interaction: A biophysical study.
Biophysical Chemistry. Roč. 148, 1-3 (2010), s. 68-73. ISSN 0301-4622

Kratochvílová, Irena^G - Kovalenko, Alexander - Taylor, Andrew - Fendrych, František - Řezáčová, V. - Vlček, Jan - Zálíš, Stanislav - Šebera, Jakub - Cígler, Petr - Ledvina, Miroslav - Nesladek, M.

Fluorescence of variously terminated nanodiamond particles: quantum chemical calculations.
Physica Status Solidi. A. Roč. 207, č. 9 (2010), s. 2045-2048. ISSN 1862-6300

Kratochvílová, Irena^G - Todorciuc, Tatiana - Král, Karel - Němec, Hynek - Bunčec, M. - Šebera, Jakub - Zálíš, Stanislav - Vokáčová, Zuzana - Sychrovský, Vladimír - Bednárová, Lucie - Mojžeš, P. - Schneider, Bohdan

Charge transport in DNA oligonucleotides with various base-pairing patterns.
Journal of Physical Chemistry B. Roč. 114, č. 15 (2010), 5196-5205. ISSN 1520-6106

Krejčí, Andrea^G - Al-Khattal, S. - Ashraf Ali, M. - Voláková, Martina - Čejka, Jiří

Transalkylation of toluene with trimethylbenzenes over large-pore zeolites.
Applied Catalysis A - General. Roč. 377, 1-2 (2010), s. 99-106. ISSN 0926-860X

Kromka, Alexander^G - Davydova, Marina - Rezek, Bohuslav - Vanček, Milan - Stuchlík, M. - Exnar, P. - Kalbáč, Martin

Gas sensing properties of nanocrystalline diamond films.
Diamond and Related Materials. Roč. 19, 2-3 (2010), s. 196-200. ISSN 0925-9635

Kulakowska-Zań, Anna^G - Jurkiewicz, Piotr - Sýkora, Jan - Benda, Aleš - Mely, Y. - Hof, Martin

Fluorescence Lifetime Tuning-A Novel Approach to Study Flip-Flop Kinetics in Supported Phospholipid Bilayers.

Kulhánek, J. - Bureš, F. - Pytela, O. - Mikysek, T. - Ludvík, Jiří^G - Ružička, A.

Push-pull molecules with a systematically extended pi-conjugated system featuring 4,5-dicyanoimidazole.

Dyes and Pigments. Roč. 85, 1-2 (2010), s. 57-65. ISSN 0143-7208

Kundu, T. - Sarkar, B. - Mondal, T. K. - Fiedler, Jan^G - Mobin, S. M. - Kaim, W. - Lahiri, G. K.
Carboxylate Tolerance of the Redox-Active Platform [Ru(mu-tppz)Ru](n), where tppz=2,3,5,6-Tetrakis(2-pyridyl)pyrazine, in the Electron-Transfer Series [(L)ClRu(mu-tppz)RuCl(L)](n), n=2+, +, 0, -, 2-, with 2-Picolinato, Quinaldato, and 8-Quinolinecarboxylato Ligands (L-).

Inorganic Chemistry. Roč. 49, č. 14 (2010), s. 6565-6574. ISSN 0020-1669

Lamač, Martin^G - Spannenberg, A. - Jiao, H. - Hansen, S. - Baumann, W. - Arndt, P. - Rosenthal, U.

Formation of a 1-Zircona-2,5-disilacyclopent-3-yne: Coordination of 1,4-Disilabutatriene to Zirconocene?.

Angewandte Chemie. International Edition in English. Roč. 49, č. 16 (2010), s. 2937-2940. ISSN 1433-7851

Lamač, Martin^G - Spannenberg, A. - Baumann, W. - Jiao, H. - Fischer, Ch. - Hansen, S. - Arndt, P. - Rosenthal, U.

Si-H Bond Activation of Alkynylsilanes by Group 4 Metallocene Complexes.

Journal of the American Chemical Society. Roč. 132, č. 12 (2010), s. 4369-4380. ISSN 0002-7863

Lamač, Martin^G - Spannenberg, A. - Jiao, H. - Hansen, S. - Baumann, W. - Arndt, P. - Rosenthal, U.

1-Zircona-2,5-disilacyclopent-3-in: ein Zirconocen-koordiniertes 1,4-Disilabutatrien?.

[Formation of a 1-Zircona-2,5-disilacyclopent-3-yne: Coordination of 1,4-Disilabutatriene to Zirconocene?.]

Angewandte Chemie. Roč. 122, č. 16 (2010), s. 2999-3002. ISSN 0570-0833

Langmaier, Jan^G - Trojánek, Antonín - Samec, Zdeněk

Electron transfer across the polarized interface between water and a hydrophobic redox-active ionic liquid.

Electrochemistry Communications. Roč. 12, č. 10 (2010), s. 1333-1335. ISSN 1388-2481

Liu, Y. - Szeifert, J. M. - Feckl, J. M. - Mandlmeier, B. - Rathouský, Jiří^G - Heyden, O. - Fattakhova-Rohlfing, D. - Bein, T.

Niobium-Doped Titania Nanoparticles: Synthesis and Assembly into Mesoporous Films and Electrical Conductivity.

ACS Nano. Roč. 4, č. 9 (2010), s. 5373-5381. ISSN 1936-0851

Macháň, Radek^G - Hof, Martin

Lipid diffusion in planar membranes investigated by fluorescence correlation spectroscopy.

Biochimica Et Biophysica Acta-Biomembranes. Roč. 1798, č. 7 (2010), s. 1377-1391. ISSN 0005-

Macháň, Radek^G - Miszta, Adam - Hermens, W. - Hof, Martin

Real-time monitoring of melittin-induced pore and tubule formation from supported lipid bilayers and its physiological relevance.

Chemistry and Physics of Lipids. Roč. 163, č. 2 (2010), s. 200-206. ISSN 0009-3084

Macháň, Radek^G - Hof, Martin

Recent Developments in Fluorescence Correlation Spectroscopy for Diffusion Measurements in Planar Lipid Membranes.

International Journal of Molecular Sciences. Roč. 11, č. 2 (2010), s. 427-457. ISSN 1422-0067

Makarova, Marina^G - Dejneka, Alexandr - Franc, Jiří - Drahokoupil, Jan - Jastrabík, Lubomír - Trepakov, Vladimír

Soft chemistry preparation methods and properties of strontiumtitanate nanoparticles.

Optical Materials. Roč. 32, č. 8 (2010), s. 803-806. ISSN 0925-3467

Marceau, E. - Che, M. - Čejka, Jiří^G - Zukal, Arnošt

Nickel(II) Nitrate vs. Acetate: Influence of the Precursor on the Structure and Reducibility of Ni/MCM-41 and Ni/Al-MCM-41 Catalysts.

ChemCatChem. Roč. 2, č. 4 (2010), s. 413-422. ISSN 1867-3880

Martín-Aranda, R. M. - Čejka, Jiří^G

Recent Advances in Catalysis Over Mesoporous Molecular Sieves.

Topics in Catalysis. Roč. 53, 3-4 (2010), s. 141-153. ISSN 1022-5528

Matos, I. - Pérez-Mayoral, E. - Soriano, E. - Zukal, Arnošt^G - Martín-Aranda, R. M. - López-Peinado, A. J. - Fonseca, I. - Čejka, Jiří

Experimental and theoretical study of pyrazole N-alkylation catalyzed by basic modified molecular sieves.

Chemical Engineering Journal. Roč. 161, č. 3 (2010), s. 377-383. ISSN 1385-8947

Matulková, Irena^G - Cihelka, Jaroslav - Vyskočil, Jan - Zelinger, Zdeněk - Hulicius, Eduard - Šimeček, Tomislav - Civiš, Svatopluk

Diagnostic and characterization of the VCSEL diodes based on GaSb.

Applied Physics B-Lasers and Optics. Roč. 99, 1-2 (2010), s. 333-338. ISSN 0946-2171

Matulková, Irena^G - Němec, I. - Císařová, I. - Němec, P. - Vaněk, Přemysl

Organic salts of biguanide - An attempt to crystal engineering of novel materials for second harmonic generation.

Journal of Molecular Structure. Roč. 966, 1-3 (2010), s. 23-32. ISSN 0022-2860

Medri, V. - Fabbri, S. - Dědeček, Jiří^G - Sobalík, Zdeněk - Tvarůžková, Zdenka - Vaccari, A.

Role of the morphology and the dehydroxylation of metakaolins on geopolymerization.

Applied Clay Science. Roč. 50, č. 4 (2010), s. 538-545. ISSN 0169-1317

Mosinger, J. - Lang, Kamil^G - Plištil, L. - Jesenská, S. - Hostomský, Jiří - Zelinger, Zdeněk - Kubát, Pavel

Fluorescent polyurethane nanofabrics: A source of singlet oxygen and oxygen sensing.
Langmuir. Roč. 26, č. 12 (2010), s. 10050-10056. ISSN 0743-7463

Mosinger, J.^G - Lang, Kamil - Hostomský, Jiří - Franc, Jiří - Sýkora, Jan - Hof, Martin - Kubát, Pavel

Singlet Oxygen Imaging in Polymeric Nanofibers by Delayed Fluorescence.
Journal of Physical Chemistry B. Roč. 114, č. 48 (2010), s. 15773-15779. ISSN 1520-6106

Mulcahy, M. E. - Bastl, Zdeněk^G - Stensrud, Kenneth F. - Magnera, T. F. - Michl, Josef
Mercury-Mediated Attachment of Metal-Sandwich-Based Altitudinal Molecular Rotors to Gold Surfaces.

Journal of Physical Chemistry C. Roč. 114, č. 33 (2010), s. 14050-14060. ISSN 1932-7447

Müller, V. - Rasp, M. - Stefanic, G. - Günther, S. - Rathouský, Jiří^G - Niederberger, M. - Fattakhova-Rohlfing, D.

Antimony doped tin oxide nanoparticles and their assembly in mesostructured film.
Physica Status Solidi C: Current Topics in Solid State Physics. Roč. 7, 1-5 (2010), s. 201000129.
ISSN 1862-6351

Müller, V. - Rasp, M. - Rathouský, Jiří^G - Schütz, B. - Niederberger, M. - Fattakhova-Rohlfing, D.

Transparent Conducting Films of Antimony-Doped Tin Oxide with Uniform Mesostructure Assembled from Preformed Nanocrystals.
Small. Roč. 6, č. 5 (2010), s. 633-637. ISSN 1613-6810

Nahas, A. E. - Cannizzo, A. - van Mourik, F. - Blanco-Rodríguez, A. M. - Záliš, Stanislav^G - Vlček Jr., Antonín - Chergui, M.

Ultrafast Excited-State Dynamics of [Re(L)(CO)(3)(bpy)](n) Complexes: Involvement of the Solvent.
Journal of Physical Chemistry A. Roč. 114, č. 22 (2010), s. 6361-6369. ISSN 1089-5639

Naseem Akhtar, M. - Tukur, N. M. - Al-Yassir, N. - Al-Khattaf, S. - Čejka, Jiří^G

Transalkylation of ethyl benzene with triethylbenzene over ZSM-5 zeolite catalyst.
Chemical Engineering Journal. Roč. 163, 1-2 (2010), s. 98-107. ISSN 1385-8947

Navrátil, Tomáš^G - Šestáková, Ivana - Štulík, Karel - Mareček, Vladimír

Electrochemical Measurements on Supported Phospholipid Bilayers: Preparation, Properties and Ion Transport Using Incorporated Ionophores.

Electroanalysis. Roč. 22, 17-18 (2010), s. 2043-2050. ISSN 1040-0397.

[International Conference on Modern Electroanalytical Methods. Prague, 09.12.2009-14.12.2009]

Navrátil, Tomáš^G - Šestáková, Ivana - Jaklová Dytrtová, Jana - Jakl, M. - Mareček, Vladimír

Study of Charged particles transport across model and real phospholipid bilayers.

WSEAS Transactions on Environment and Development. Roč. 6, č. 3 (2010), s. 208-219. ISSN 1790-5079

Navrátil, Tomáš^G - Kohlíková, E. - Petr, M. - Pelclová, D. - Heyrovský, Michael - Přistoupilová, K.

Supplemented Creatine Induces Changes in Human Metabolism of Thiocompounds and One- and Two-Carbon Units.

Physiological Research. Roč. 59, č. 3 (2010), s. 431-442. ISSN 0862-8408

Němec, Hynek^G - Kužel, Petr - Kadlec, Filip - Fattakhova-Rohlfing, D. - Szeifert, J. - Bein, T. - Kalousek, Vít - Rathouský, Jiří

Ultrafast terahertz photoconductivity in nanocrystalline mesoporous TiO₂ films.

Applied Physics Letters. Roč. 96, č. 6 (2010), 062103/1-062103/3. ISSN 0003-6951

Neti, R.N. - Misra, R. - Bera, P.K. - Dhodapkar, R. - Bakardjieva, Snejana^G - Bastl, Zdeněk
Synthesis of C-Doped TiO₂ Nanoparticles by Novel Sol-Gel Polycondensation of Resorcinol with Formaldehyde for Visible-Light Photocatalysis.

Synthesis and Reactivity in Inorganic Metal-Organic and Nano-Metal Chemistry. Roč. 40, č. 5 (2010), s. 328-332. ISSN 1553-3174

Olivares, A. - Dryahina, Kseniya^G - Navarro, J. L. - Flores, M. - Smith, D. - Španěl, Patrik

Selected Ion Flow Tube-Mass Spectrometry for Absolute Quantification of Aroma Compounds in the Headspace of Dry Fermented Sausages.

Analytical Chemistry. Roč. 82, č. 13 (2010), s. 5819-5829. ISSN 0003-2700

Ončák, Milan - Lischka, Hans - Slaviček, Petr^G

Photostability and solvation: photodynamics of microsolvated zwitterionic glycine.

Physical Chemistry Chemical Physics. Roč. 12, č. 19 (2010), s. 4906-4914. ISSN 1463-9076

Ončák, Milan - Schröder, Detlef - Slaviček, Petr^G

Theoretical Study of the Microhydration of Mononuclear and Dinuclear Uranium(VI) Species Derived from Solvolysis of Uranyl Nitrate in Water.

Journal of Computational Chemistry. Roč. 31, č. 12 (2010), s. 2294-2306. ISSN 0192-8651

Pammer, F. - Sun, Y. - Sieger, M. - Fiedler, Jan^G - Sarkar, B. - Thiel, W. R.

A Cobaltocenium Complex of Dibenzoc[*c,g*]fluorenone and Its Structural and Electrochemical Properties.

Organometallics. Roč. 29, č. 23 (2010), s. 6165-6168. ISSN 0276-7333

Parkes, M. A. - Lockyear, J. F. - Price, S. D. - Schröder, Detlef^G - Roithová, J. - Herman, Zdeněk
Selective dissociation in dication-molecule reactions.

Physical Chemistry Chemical Physics. Roč. 12, č. 23 (2010), s. 6233-6243. ISSN 1463-9076

Partovi-Nia, R. - Su, B. - Méndez, M. A. - Habermeyer, B. - Gros, C. P. - Barbe, J.-M. - Samec, Zdeněk^G - Girault, H. H.

Dioxygen Reduction by Cobalt(II) Octaethylporphyrin at Liquid vertical bar Liquid Interfaces.

ChemPhysChem. Roč. 11, č. 13 (2010), s. 2979-2984. ISSN 1439-4235

Pavlačková, Zuzana^G - Zones, S. I. - Čejka, Jiří

Post-Synthesis Modification of SSZ-35 Zeolite to Enhance the Selectivity in p-Xylene Alkylation with Isopropyl Alcohol.

Topics in Catalysis. Roč. 53, 3-4 (2010), s. 273-282. ISSN 1022-5528

Pavluch, J.^G - Zommer, L. - Mašek, K. - Skála, T. - Šutara, F. - Nehasil, V. - Píš, I. - Polyak, Yaroslav

Non-destructive Depth Profiling of the Activated Ti-Zr-V Getter by Means of Excitation Energy Resolved Photoelectron Spectroscopy.

Analytical Sciences. Roč. 26, č. 2 (2010), s. 209-215. ISSN 0910-6340

Pérez-Mayoral, E. - Matos, I. - Fonseca, I. - Čejka, Jiří^G

Zeolites Efficiently Promote the Cyclization of Nonactivated Unsaturated Alcohols.

Chemistry - A European Journal. Roč. 16, č. 40 (2010), s. 12079-12082. ISSN 0947-6539

Perrin, A. - Strižík, M. - Beckers, H. - Willner, H. - Zelinger, Zdeněk^G - Pracna, Petr - Nevrlý, V. - Grigorová, E.

First analysis of the high resolution FTIR spectrum of the $\nu(2)$ band of the FCO₂ radical at 970.2 cm⁻¹.

Molecular Physics. Roč. 108, č. 6 (2010), s. 723-731. ISSN 0026-8976

Petrtyl, M. - Bastl, Zdeněk^G - Kruliš, Zdeněk - Hulejová, H. - Polanská, M. - Lísal, J. - Danešová, J. - Černý, P.

Cycloolefin-Copolymer/Polyethylene (COC/PE) Blend Assists with the Creation of New Articular Cartilage.

Macromolecular Symposia. 294-I, - (2010), s. 120-132. ISSN 1022-1360

Petrtyl, M. - Danešová, J. - Lísal, J. - Šenolt, L. - Hulejová, H. - Polanská, M. - Bastl, Zdeněk^G - Kruliš, Zdeněk - Černý, P.

The initial bearing capacities of subchondral bone replacements considerably contributing to chondrogenesis.

Acta of Bioengineering and Biomechanics. Roč. 12, č. 3 (2010), s. 59-65. ISSN 1509-409X

Petrykin, Valery^G - Macounová, Kateřina - Shlyakhtin, O. A. - Krtil, Petr

Tailoring the Selectivity for Electrocatalytic Oxygen Evolution on Ruthenium Oxides by Zinc Substitution.

Angewandte Chemie. International Edition in English. Roč. 49, č. 28 (2010), s. 4813-4815. ISSN 1433-7851

Pevny, F. - Winter, R. F. - Sarkar, B. - Záliš, Stanislav^G

How to elucidate and control the redox sequence in vinylbenzoate and vinylpyridine bridged diruthenium complexes.

Dalton Transactions. Roč. 39, č. 34 (2010), s. 8000-8011. ISSN 1477-9226

Pick, Štěpán^G

Density-functional study of the CO adsorption on the ferromagnetic fcc Co(001) film surface.

Surface Science. Roč. 604, 3-4 (2010), s. 265-268. ISSN 0039-6028

Pick, Štěpán^G

Density-functional study of the methoxy intermediates at Cu(111), Cu(110) and Cu(001) surfaces.
Journal of Physics-Condensed Matter. Roč. 22, č. 39 (2010), s. 395002. ISSN 0953-8984

Pinkas, Jiří^G - Lukešová, Lenka - Gyepes, R. - Císařová, I. - Kubišta, Jiří - Horáček, Michal - Mach, Karel

Reduction-Induced Exclusive Activation of the ansa-1,2-Bis(dimethylsilylene)ethane Chain in ansa-Permethylnitranocene Compounds.
Organometallics. Roč. 29, č. 21 (2010), s. 5199-5208. ISSN 0276-7333

Pirngruber, G. D. - Raybaud, P. - Belmabkhout, Y. - Čejka, Jiří^G - Zukal, Arnošt

The role of the extra-framework cations in the adsorption of CO₂ on faujasite Y.
Physical Chemistry Chemical Physics. Roč. 12, č. 41 (2010), s. 13534-13546. ISSN 1463-9076

Pola, Josef^G - Urbanová, Markéta - Pokorná, Dana - Šubrt, Jan - Bakardjieva, Snejana - Bezdička, Petr - Bastl, Zdeněk

IR Laser-induced Formation of Amorphous Co-C Films with Crystalline Co, Co₂C and Co₃C Nanograins in a Graphitic Shell.
Journal of Photochemistry and Photobiology A-Chemistry. Roč. 210, 2-3 (2010), s. 153-161. ISSN 1010-6030

Pola, Josef^G - Galíková, Anna - Bakardjieva, Snejana - Šubrt, Jan - Bastl, Zdeněk - Vorlíček, Vladimír - Maryško, Miroslav - Ouchi, A.

Megawatt Ultraviolet Laser Photolysis of Dichloroethenes for Gas-Phase Deposition of Nanosized Chlorinated Soot.
Journal of Physical Chemistry C. Roč. 114, č. 39 (2010), s. 16153-16159. ISSN 1932-7447

Polák, Rudolf^G - Fišer, J.

Theoretical study of electric field gradients at nitrogen nuclei in HNO, CH₃NO and C₂H₃NO.
Chemical Physics. Roč. 375, č. 1 (2010), s. 85-91. ISSN 0301-0104

Polanská, M. - Hulejová, H. - Petrtýl, M. - Bastl, Zdeněk^G - Spirovová, Ilona - Kruliš, Zdeněk - Horák, Zdeněk - Veigl, D. - Šenolt, L.

Surface modification of cyclic olefin copolymers for osteochondral defect repair can increase pro-destructive potential of human chondrocytes in vitro.
Physiological Research. Roč. 59, č. 2 (2010), s. 247-253. ISSN 0862-8408

Pospíšil, Lubomír^G - Teplý, Filip - Gál, Miroslav - Adriaenssens, Louis - Horáček, Michal - Severa, Lukáš

Helquats, helical extended diquats, as fast electron transfer systems.
Physical Chemistry Chemical Physics. Roč. 12, č. 7 (2010), s. 1550-1556. ISSN 1463-9076

Pospíšil, Lubomír^G - Hromadová, Magdaléna - Gál, Miroslav - Bulíčková, Jana - Sokolová, Romana - Filippone, S. - Yang, J. - Guan, Z. - Rassat, A. - Zhang, Y.

Redox potentials and binding enhancement of fullerene and fullerene-cyclodextrin systems in water

and dimethylsulfoxide.

[Redox potenciály a zvýšení komplexace fullerenu a systémů fullerene=cyklodextrin ve vodě dimethylsulfoxidu.]

Carbon. Roč. 48, č. 1 (2010), s. 153-162. ISSN 0008-6223

Pospíšil, Lubomír^G - Gál, Miroslav - Hromadová, Magdaléna - Bulíčková, Jana - Kolivoška, Viliam - Cvačka, Josef - Nováková, Kateřina - Kavan, Ladislav - Zukalová, Markéta - Dunsch, L.

Search for the form of fullerene C60 in aqueous medium.

Physical Chemistry Chemical Physics. Roč. 12, č. 42 (2010), s. 14095-14101. ISSN 1463-9076

Pospíšil, Lubomír^G

Uplatnění polarografie ve fyzikálněchemickém výzkumu.

[Application of polarography in physico-chemical research.]

Československý časopis pro fyziku. Roč. 60, - (2010), s. 35-39. ISSN 0009-0700

Poterya, Viktoriya - Tkáč, Ondřej - Fedor, Juraj - Fárník, Michal - Slaviček, P.^G - Buck, U.
Mass spectrometry of hydrogen bonded clusters of heterocyclic molecules: Electron ionization vs. photoionization.

International Journal of Mass Spectrometry. Roč. 290, 2-3 (2010), s. 85-93. ISSN 1387-3806

Grant CEP: GA AV ČR KAN400400651; GA AV ČR KJB400400902; GA ČR GA203/09/0422

Pracna, Petr^G - Ceausu-Velcescu, A. - Predoi-Cross, A. - Urban, Š.

Rovivibrational spectroscopy of the Fermi-interacting $\nu(4)=1$ and $\nu(3) = \nu(6)=1$ levels of DCF3.

Journal of Molecular Spectroscopy. Roč. 259, č. 1 (2010), s. 1-10. ISSN 0022-2852

Grant CEP: GA AV ČR IAA400400706; GA MŠk LC06071

Procházková, Dana^G - Voláková, Martina - Vlk, Josef - Vinu, A. - Štěpnička, P. - Čejka, Jiří
Selective Monoacylation of Ferrocene with Bulky Acylating Agents over Mesoporous Sieve AIKIT-5.
Chemistry - A European Journal. Roč. 16, č. 26 (2010), s. 7773-7780. ISSN 0947-6539

Rakovcová, H. - Fenclová, Z. - Navrátil, Tomáš^G - Urban, P.

Profesionální a neprofesionální intoxikace s postižením centrálního nervového systému v letech 2005–2009 z Národního registru nemocí z povolání a z dotazů Toxikologického informačního střediska.

[Professional and Non-professional Intoxications with Lesion of the Central Nervous System in the Years 2005–2009 Reported by the Czech National Registry of Occupational Diseases and The Czech Toxicological Information Center.]

Neurologie pro praxi. Roč. 11, č. 4 (2010), s. 81-84. ISSN 1213-1814

Rathouský, Jiří^G - Kalousek, Vít - Yarovy, V. - Wark, M. - Jirkovský, Jaromír

A low-cost procedure for the preparation of mesoporous layers of TiO₂ efficient in the environmental clean-up.

Journal of Photochemistry and Photobiology A-Chemistry. Roč. 216, 2-3 (2010), s. 126-132. ISSN 1010-6030

Révész, Agnes - Milko, Petr - Žabka, Ján - Schröder, Detlef^G - Roithová, J.

Reduction from copper(II) to copper(I) upon collisional activation of (pyridine)₂CuCl₂.

Říhová, Blanka^G - Etrych, Tomáš - Šírová, Milada - Kovář, Lubomír - Hovorka, Ondřej - Kovář, Marek - Benda, Aleš - Ulbrich, Karel

Synergistic action of doxorubicin bound to the polymeric carrier based on N-(2-hydroxypropyl)methacrylamide copolymers through and amide or hydrazone bond.

MOLECULAR PHARMACEUTICS. Roč. 7, č. 4 (2010), s. 1027-1040. ISSN 1543-8384

Sandroni, M. - Volpi, G. - Fiedler, Jan^G - Buscaino, R. - Viscardi, G. - Milone, L. - Gobetto, R. - Nervi, C.

Iridium and ruthenium complexes covalently bonded to carbon surfaces by means of electrochemical oxidation of aromatic amines.

Catalysis Today. Roč. 158, 1-2 (2010), s. 22-28. ISSN 0920-5861

Saniga, M. - Levay, P. - Planat, M. - Pracna, Petr^G

Geometric Hyperplanes of the Near Hexagon L-3 x GQ(2,2).

Letters in Mathematical Physics. Roč. 91, č. 1 (2010), s. 93-104. ISSN 0377-9017

Výzkumný záměr: CEZ:AV0Z40400503

Saniga, M. - Pracna, Petr^G

Space Versus Time: Unimodular Versus Non-Unimodular Projective Ring Geometries?.

Journal of Cosmology. Roč. 4, - (2010), s. 719-735. ISSN 2159-063X

Saniga, M. - Green, R. M. - Levay, P. - Vrana, P. - Pracna, Petr^G

The Veldkamp Space of GQ(2,4).

International Journal of geometric Methods in Modern Physics. Roč. 7, č. 7 (2010), s. 1133-1145.

ISSN 0219-8878

Santos, M. - Diaz, L. - Camacho, J. - Urbanová, Markéta^G - Pokorná, Dana - Šubrt, Jan - Bakardjieva, Snejana - Bastl, Zdeněk - Pola, Josef

IR Laser-induced Metal Ablation and Dielectric Breakdown in Benzene.

Infrared Physics and Technology. Roč. 53, č. 1 (2010), s. 23-28. ISSN 1350-4495

Sarper, O. - Sarkar, B. - Fiedler, Jan^G - Lissner, F. - Kaim, W.

Organoosmium complexes of imidazole-containing chelate acceptor ligands.

Inorganica chimica acta. Roč. 363, č. 12 (2010), s. 3070-3077. ISSN 0020-1693

Shvets, O. V. - Kasian, N. - Zukal, Arnošt^G - Pinkas, Jiří - Čejka, Jiří

The Role of Template Structure and Synergism between Inorganic and Organic Structure Directing Agents in the Synthesis of UTL Zeolite.

Chemistry of Materials. Roč. 22, č. 11 (2010), s. 3482-3495. ISSN 0897-4756

Sixt, T. - Sieger, M. - Krafft, M. J. - Bubrin, D. - Fiedler, Jan^G - Kaim, W.

Ambi-Valence Taken Literally: Ruthenium vs Iron Oxidation in (1,1'-Diphosphinoferrocene)ruthenium(II) Hydride and Chloride Complexes as Deduced from Spectroelectrochemistry of the Heterodimetallic "Mixed-Valent" Intermediates.

Organometallics. Roč. 29, č. 21 (2010), s. 5511-5516. ISSN 0276-7333

Sklenák, Štěpán^G - Andrikopoulos, Prokopis C. - Boekfa, Bundet - Jansang, Bavornpon - Nováková, Jana - Benco, L. - Bucko, T. - Hafner, J. - Dědeček, Jiří - Sobalík, Zdeněk
N₂O decomposition over Fe-zeolites: Structure of the active sites and the origin of the distinct reactivity of Fe-ferrierite, Fe-ZSM-5, and Fe-beta. A combined periodic DFT and multispectral study.
Journal of Catalysis. Roč. 272, č. 2 (2010), s. 262-274. ISSN 0021-9517

Smith, D. - Španěl, Patrik^G - Sule-Suso, J.
Advantages of breath testing for the early diagnosis of lung cancer.
Expert Review of Molecular Diagnostics. Roč. 10, č. 3 (2010), s. 255-257. ISSN 1473-7159

Smith, D. - Španěl, Patrik^G - Enderby, B. - Lenney, W. - Turner, C. - Davies, S. J.
Isoprene levels in the exhaled breath of 200 healthy pupils within the age range 7-18 years studied using SIFT-MS.
Journal of Breath Research. Roč. 4, č. 1 (2010), 017101. ISSN 1752-7155

Smith, D. - Pysanenko, Andriy^G - Španěl, Patrik
Kinetics of ethanol decay in mouth- and nose-exhaled breath measured on-line by selected ion flow tube mass spectrometry following varying doses of alcohol.
Rapid Communications in Mass Spectrometry. Roč. 24, č. 7 (2010), s. 1066-1074. ISSN 0951-4198

Smith, D. - Španěl, Patrik^G
Selected ion flow tube mass spectrometry, SIFT-MS; new horizons in real time air and breath analysis.
Spectroscopy Europe. Roč. 22, č. 4 (2010), s. 21-24. ISSN N

Sokolová, Romana^G - Degano, I. - Hromadová, Magdaléna - Bulíčková, Jana - Gál, Miroslav - Valášek, Michal
OXIDATION PATHWAYS OF NATURAL DYE HEMATOXYLIN IN AQUEOUS SOLUTION.
Collection of Czechoslovak Chemical Communications. Roč. 75, č. 11 (2010), s. 1097-1114. ISSN 0010-0765

Sokolová, Romana^G - Hromadová, Magdaléna - Ludvík, Jiří - Pospíšil, Lubomír - Giannarelli, S.
The autoprotonation in reduction mechanism of pesticide ioxynil.
Electrochimica acta. Roč. 55, č. 27 (2010), s. 8336-8340. ISSN 0013-4686
Grant CEP: GA ČR GA203/09/1607; GA ČR GA203/08/1157; GA MŠk LC510; GA MŠk OC 140

Sovová, Kristýna^G - Dryahina, Kseniya - Španěl, Patrik - Kyncl, M. - Civiš, Svatopluk
A study of the composition of the products of laser-induced breakdown of hexogen, octogen, pentrite and trinitrotoluene using selected ion flow tube mass spectrometry and UV-Vis spectrometry.
Analyst. Roč. 135, č. 5 (2010), s. 1106-1114. ISSN 0003-2654

Su, B. - Hatay, I. - Trojánek, Antonín^G - Samec, Zdeněk - Khoury, T. - Gros, C. P. - Barbe, J.-M. - Daina, A. - Carrupt, P. A. - Girault, H. H.
Molecular Electrocatalysis for Oxygen Reduction by Cobalt Porphyrins Adsorbed at Liquid/Liquid Interfaces.

Journal of the American Chemical Society. Roč. 132, č. 8 (2010), s. 2655-2662. ISSN 0002-7863

Su, B. - Hatay, I. - Ge, P. Y. - Méndez, M. A. - Corminboeuf, C. - Samec, Zdeněk^G - Ersöz, M. - Girault, H. H.

Oxygen and proton reduction by decamethylferrocene in non-aqueous acidic media.
Chemical Communications. Roč. 46, č. 17 (2010), s. 2918-2919. ISSN 1359-7345

Su, B. - Hatay, I. - Li, F. - Partovi-Nia, R. - Samec, Zdeněk^G - Ersöz, M. - Girault, H. H.

Oxygen reduction by decamethylferrocene at liquid/liquid interfaces catalyzed by dodecylaniline.
Journal of Electroanalytical Chemistry. Roč. 639, 1-2 (2010), s. 102-108. ISSN 1572-6657

Szeifert, J. M. - Feckl, J. M. - Fattakhova-Rohlfing, D. - Liu, Y. - Kalousek, Vít^G - Rathouský, Jiří - Bein, T.

Ultrasmall Titania Nanocrystals and Their Direct Assembly into Mesoporous Structures Showing Fast Lithium Insertion.

Journal of the American Chemical Society. Roč. 132, č. 36 (2010), s. 12605-12611. ISSN 0002-7863

Šachl, Radek^G - Boldyrev, I. - Johansson, L. B. A.

Localisation of BODIPY-labelled phosphatidylcholines in lipid bilayers.

Physical Chemistry Chemical Physics. Roč. 12, č. 23 (2010), s. 6027-6034. ISSN 1463-9076

Šebera, Jakub^G - Hoffmannová, Hana - Krtil, Petr - Samec, Zdeněk - Záliš, Stanislav

Electrochemical and density functional studies of the catalytic ethylene oxidation on nanostructured Au electrodes.

Catalysis Today. Roč. 158, 1-2 (2010), s. 29-34. ISSN 0920-5861

Šustrová, Barbora^G - Štulík, Karel - Mareček, Vladimír - Janda, Pavel

A Study of the Modification of the Gold Electrode Surface with a Calix[4]arene Self-Assembled Monolayer.

Electroanalysis. Roč. 22, 17-18 (2010), s. 2051-2057. ISSN 1040-0397.

[International Conference on Modern Electroanalytical Methods. Prague, 09.12.2009-14.12.2009]

Tan, B. K. - Smith, D. - Španěl, Patrik^G - Davies, S. J.

Dispersal kinetics of deuterated water in the lungs and airways following mouth inhalation: real-time breath analysis by flowing afterglow mass spectrometry (FA-MS).

Journal of Breath Research. Roč. 4, č. 1 (2010), 017109. ISSN 1752-7155

Tatarko, P. - Puchý, V. - Dusza, J. - Morgiel, J. - Bastl, Zdeněk^G - Mihály, J.

Characterization of carbon nanofibers by SEM, TEM, ESCA and raman spectroscopy.

Kovové materiály. Roč. 48, č. 6 (2010), s. 379-385. ISSN 0023-432X

Uchman, M. - Jurkiewicz, Piotr^G - Cígler, Petr - Grüner, Bohumír - Hof, Martin - Procházka, K. - Matějček, P.

Interaction of Fluorescently Substituted Metallacarboranes with Cyclodextrins and Phospholipid Bilayers: Fluorescence and Light Scattering Study.

Urbanová, Markéta^G - Pokorná, Dana - Bakardjieva, Snejana - Šubrt, Jan - Bastl, Zdeněk - Bezdička, Petr - Pola, Josef

IR Laser-induced Ablation of Ag in Dielectric Breakdown of Gaseous Hydrocarbons: Simultaneous Occurrence of Metastable HCP and Stable FCC Ag Nanostructures in C:H Shell.

Journal of Photochemistry and Photobiology A-Chemistry. Roč. 213, 2-3 (2010), s. 114-122. ISSN 1010-6030

Vácha, Robert - Jurkiewicz, Piotr - Petrov, Michal - Berkowitz, M. L. - Böckmann, R. A. - Barucha-Kraszewska, Justyna - Hof, Martin - Jungwirth, Pavel^G

Mechanism of Interaction of Monovalent Ions with Phosphatidylcholine Lipid Membranes.

Journal of Physical Chemistry B. Roč. 114, č. 29 (2010), s. 9504-9509. ISSN 1520-6106

Varga, V. - Pinkas, Jiří^G - Gyepes, R. - Štěpnička, P. - Horáček, Michal - Bastl, Zdeněk - Mach, Karel

SYNTHESIS OF ZIRCONOCENE SILSESQUIOXANE COMPLEXES AND THEIR ETHENE POLYMERIZATION ACTIVITY IN SYSTEMS WITH METHYLALUMINOXANE.

Collection of Czechoslovak Chemical Communications. Roč. 75, č. 1 (2010), s. 105-119. ISSN 0010-0765

Veis, L. - Pittner, Jiří^G

Quantum computing applied to calculations of molecular energies: CH₂ benchmark.

Journal of Chemical Physics. Roč. 133, č. 19 (2010), s. 194106. ISSN 0021-9606

Vergara, M. M. - García Posse, M. E. - Fagalde, F. - Katz, N. E. - Fiedler, Jan^G - Sarkar, B. - Sieger, M. - Kaim, W.

Mixed-valency with cyanides as terminal ligands: Diruthenium(III,II) complexes with the 3,6-bis(2-pyridyl)-1,2,4,5-tetrazine bridge and variable co-ligands (CN⁻ vs. bpy or NH₃).

Inorganica chimica acta. Roč. 363, č. 1 (2010), s. 163-167. ISSN 0020-1693

Vítek, A. - Kalus, R. - Paidarová, Ivana^G

Structural changes in the water tetramer. A combined Monte Carlo and DFT study.

Physical Chemistry Chemical Physics. Roč. 12, č. 41 (2010), s. 13657-13666. ISSN 1463-9076

Votava, Ondřej^G - Mašát, M. - Pracna, Petr - Kassi, S.

Accurate determination of low state rotational quantum numbers ($J < 4$) from planar-jet and liquid nitrogen cell absorption spectra of methane near 1.4 micron.

Physical Chemistry Chemical Physics. Roč. 12, č. 13 (2010), s. 3145-3155. ISSN 1463-9076

Vyskočil, V. - Navrátil, Tomáš^G - Polášková, P. - Barek, J.

Voltammetric Determination of Genotoxic Nitro Derivatives of Fluorene and 9-Fluorenone Using a Mercury Meniscus Modified Silver Solid Amalgam Electrode.

Electroanalysis. Roč. 22, 17-18 (2010), s. 2034-2042. ISSN 1040-0397.

[International Conference on Modern Electroanalytical Methods. Prague, 09.12.2009-14.12.2009]

Yachmenev, A. - Yurchenko, S. N. - Paidarová, Ivana^G - Jensen, P. - Thiel, W. - Sauer, S. P. A.
Thermal averaging of the indirect nuclear spin-spin coupling constants of ammonia: The importance of the large amplitude inversion mode.
Journal of Chemical Physics. Roč. 132, č. 11 (2010), s. 114305. ISSN 0021-9606

Yosypchuk, Bogdan^G - Fojta, Miroslav - Barek, J.
Preparation and Properties of Mercury Film Electrodes on Solid Amalgam Surface.
Electroanalysis. Roč. 22, 17-18 (2010), s. 1967-1973. ISSN 1040-0397.
[International Conference on Modern Electroanalytical Methods. Prague, 09.12.2009-14.12.2009]

Záliš, Stanislav^G - Winter, R. F. - Kaim, W.
Quantum chemical interpretation of redox properties of ruthenium complexes with vinyl and TCNX type non-innocent ligands.
Coordination Chemistry Reviews. Roč. 254, 13-14 (2010), s. 1383-1396. ISSN 0010-8545

Zukal, Arnošt^G - Mayerová, Jana - Kubů, Martin
Adsorption of Carbon Dioxide on High-Silica Zeolites with Different Framework Topology.
Topics in Catalysis. Roč. 53, 19-20 (2010), s. 1361-1366. ISSN 1022-5528

Zukal, Arnošt^G - Mayerová, Jana - Čejka, Jiří
Alkali metal cation doped Al-SBA-15 for carbon dioxide adsorption.
Physical Chemistry Chemical Physics. Roč. 12, č. 20 (2010), s. 5240-5247. ISSN 1463-9076

Zukal, Arnošt^G - Pulido, A. - Gil, B. - Nachtigall, P. - Bludský, Ota - Rubeš, M. - Čejka, Jiří
Experimental and theoretical determination of adsorption heats of CO₂ over alkali metal exchanged ferrierites with different Si/Al ratio.
Physical Chemistry Chemical Physics. Roč. 12, č. 24 (2010), s. 6413-6422. ISSN 1463-9076

Zukalová, Markéta^G - Procházka, Jan - Bastl, Zdeněk - Duchoslav, J. - Rubáček, L. - Havlíček, D. - Kavan, Ladislav
Facile Conversion of Electrospun TiO₂ into Titanium Nitride/Oxynitride Fibers.
Chemistry of Materials. Roč. 22, č. 13 (2010), s. 4045-4055. ISSN 0897-4756
Grant CEP: GA MŠK LC510; GA MŠK OC09048; GA AV ČR IAA400400804; GA AV ČR KAN200100801

Zukalová, Markéta^G - Procházka, Jan - Zukal, Arnošt - Yum, J. H. - Kavan, Ladislav - Graetzel, M.
Organized Mesoporous TiO₂ Films Stabilized by Phosphorus: Application for Dye-Sensitized Solar Cells.
Journal of the Electrochemical Society. Roč. 157, č. 1 (2010), H99-H103. ISSN 0013-4651

Žabka, Ján^G - Ricketts, Claire - Schröder, Detlef - Roithová, J. - Schwarz, H. - Thissen, R. - Dutuit, O. - Price, S. D. - Herman, Zdeněk
Crossed-Beam Scattering Studies of Electron-Transfer Processes between the Dication CO₂²⁺ and Neutral CO₂: Electronic States of Reactants and Products Involved.
Journal of Physical Chemistry A. Roč. 114, č. 23 (2010), s. 6463-6471. ISSN 1089-5639

Žabka, Ján^G - Roithová, Jana - Španěl, Patrik - Herman, Zdeněk

Dynamics of Formation of Products D₂CN⁺, DCN⁺, and CD₃⁺ in the Reaction of N⁺ with CD₄: A Crossed-Beam and Theoretical Study.

Journal of Physical Chemistry A. Roč. 114, č. 3 (2010), s. 1384-1391. ISSN 1089-5639

Monographs

Čársky, Petr (ed.)^G - Paldus, J. (ed.) - Pittner, Jiří (ed.)

Recent Progress in Coupled Cluster Methods. Theory and Applications.

1. - Dordrecht : Springer, 2010. 657 s. - (Challenges and Advances in Comput. Chem. Phys, 11). ISBN 978-90-481-2884-6. 1.

Čejka, Jiří (ed.)^G - Corma, A. (ed.) - Zones, S. (ed.)

Zeolites and Catalysis. Synthesis, Reactions and Applications.

1. - Weinheim : Wiley-VCH, 2010. 882 s. ISBN 978-3-527-32514-6. 1.

Chapters in Monographs

Balcar, Hynek^G - Čejka, Jiří

Mesoporous molecular sieves based catalysts for olefin metathesis and metathesis polymerization.

Green Metathesis Chemistry: Great Challenges in Synthesis, Catalysis and Nanotechnology. 1.

Dordrecht : Springer, 2010 - (Dragutan, V.; Démonceau, A.; Dragutan, I.; Finkelshtein, E.), s. 101-114
ISBN 978-90-481-3432-8

Bejblová, Martina^G - Sulajman, S. A. - Ahraf, A. M. - Kubička, D. - Čejka, Jiří

16. Zeolites and catalysts in petrochemistry, biomass upgrading and fine chemical synthesis.

Silica and Silicates in Modern Catalysis. Trivandrum, Kerala : Transworld Research Network, 2010 -
(Halasz, I.), s. 407-433 ISBN 978-81-7895-455-4

Bek, David - Balcar, Hynek^G - Sedláček, J.

[RuCl₂(p-cymene)]₂ immobilized on mesoporous molecular sieves SBA-15 as catalyst for ROMP of norbornene.

Green Metathesis Chemistry: Great Challenges in Synthesis, Catalysis and Nanotechnology. 1.

Dordrecht : Springer, 2010 - (Dragutan, V.; Démonceau, A.; Dragutan, I.; Finkelshtein, E.), s. 391-400
ISBN 978-90-481-3432-8

Heyrovský, Michael^G

Československá polarografie v poválečných letech.

[Czechoslovak polarography in the postwar years.]

Věda a technika v Československu v letech 1945-1960. Praha : Národní technické muzeum, 2010 -

(Janovský, I.; Kleinová, J.; Střítecký, H.), s. 41-45 ISBN 978-80-7037-197-8. - (Práce z dějin techniky a přírodních věd. 24)

Kavan, Ladislav^G

Activation of Phosphate Olivines LiMPO₄ (M = Fe, Mn) by Functionalized Carbon Nanotubes:

Application for Cathode Materials of Li-Ion Battery.

Nanotechnology 2010: Bio Sensors, Instruments, Medical, Environment and Energy. Boca Raton : Taylor & Francis, 2010, s. 801-804. ISBN 978-1-4398-3415-2

Kavan, Ladislav^G

Titania in Diverse Forms as Substrates.

Dye-Sensitized Solar Cells. Boca Raton : CRC Press Taylor & Francis, 2010, s. 45-81. ISBN 978-1-4398-0866-5

Kedžuch, S. - Demel, Ondřej^G - Pittner, Jiří - Noga, J.

Multireference R12 coupled cluster theory.

Recent Progress in Coupled Cluster Methods. Theory and Applications. 1. Dordrecht : Springer, 2010 - (Čársky, P.; Paldus, J.; Pittner, J.), s. 251-266 ISBN 978-90-481-2884-6. - (Challenges and Advances in Comput. Chem. Phys.. 11)

Mikysek, T. - Stočes, M. - Švancara, I. - Ludvík, Jiří^G

Relation between the composition and properties of carbon nanotubes paste electrodes (CNTPEs).

Sensing in Electroanalysis. Pardubice : Univerzita Pardubice, 2010, s. 69-75. ISBN 978-80-7395-348-5

Miszta, Adam^G - Macháň, Radek - Hermens, W. Th. - Hof, Martin

Peptide-Membrane Interactions Studied by Ellipsometry, Laser Scanning Microscopy, and Z-Scan Fluorescence Correlation Spectroscopy.

Membrane Active Peptides. Methods and Results on Structure and Function. La Jolla : International University Line, 2010 - (Castanho, M.), s. 219-245 ISBN 978-0-9720774-5-3. - (IUL Biotechnology Series)

Müller, V. - Rathouský, Jiří^G - Rasp, M. - Štefanić, G. - Günther, S. - Niederberger, M. - Fattakhova-Rohlfing, D.

Highly conducting nanosized monodispersed antimony-doped tin oxide particles synthesized via nanoaqueous sol-gel method.

Nanotechnology 2010: Advanced Materials, CNTs, Particles, Films and Composites. Boca Raton : Taylor-Francis, 2010, s. 340-343. ISBN 978-1-4398-3401-5. - (Nanotech 2010)

Müller, V. - Rathouský, Jiří^G - Rasp, M. - Schütz, B. - Niederberger, M. - Fattakhova-Rohlfing, D.

Transparent Conducting Films of Antimony-Doped Tin Oxide with Uniform Mesosstructure Assembled from Preformed Nanocrystals.

Nanotechnology 2010: Advanced Materials, CNTs, Particles, Films and Composites. Boca Raton : Taylor-Francis, 2010, s. 627-630. ISBN 978-1-4398-3401-5. - (Nanotech 2010)

Navrátil, Tomáš^G - Kohlíková, E. - Petr, M. - Přistoupilová, K.

Effect of creatine applied as food supplement on human metabolism.

Handbook of Nutritional Biochemistry. Genomics, Metabolimics and Food Supply. New York : Nova Sience Publ., Inc, 2010 - (Haugen, S.; Meijer, S.), s. 317-338 ISBN 978-1-60741-916-7. - (Nutritrition and Diet Research Progress Series)

Paidarová, Ivana^G - Durand, P.

Unstable States: From Quantum Mechanics to Statistical Physics.

Unstable States in the Continuous Spectra. Analysis, Concepts, Methods and Results. 1. New York :

Academic Press, 2010 - (Cleanthes, N.), s. 1-49 ISBN 978-0-12-380900-1. - (Advances in Quantum Chemistry. Vol. 60)

Paldus, J. - Pittner, Jiří^G - Čársky, Petr

Multireference Coupled-Cluster Methods: Recent Developments.

Recent Progress in Coupled Cluster Methods. Theory and Applications. 1. Dordrecht : Springer, 2010 - (Čársky, P.; Paldus, J.; Pittner, J.), s. 455-489 ISBN 978-90-481-2884-6. - (Challenges and Advances in Comput. Chem. Phys.. 11)

Vlček Jr., Antonín^G

Ultrafast Excited-State Processes in Re(I) Carbonyl-Diimine Complexes: From Excitation to Photochemistry.

Photophysics of Organometallics. 1. Heidelberg : Springer Berlin, 2010 - (Lees, A.), s. 73-114 ISBN 978-3-642-04728-2. - (Topics in Organometallic Chemistry. 29)

Vyskočil, V. - Daňhel, A. - Fischer, J. - Novotný, V. - Deýlová, D. - Horáková, E. - Barek, J. - Yosypchuk, Bogdan^G - Wang, J.

Silver amalgam electrodes - A look back at the last five years of their development and Applications. *Sensing in Electroanalysis.* Pardubice : Univerzita Pardubice, 2010, s. 13-31. ISBN 978-80-7395-348-5

Patents

Bortnovsky, O. - Dvořáková, K. - Sobalík, Zdeněk^G - Sazama, Petr - Dědeček, Jiří - Tvarůžková, Zdenka

Katalyzátor pro úplnou oxidaci těkavých organických látek na bázi geopolymery a způsob jeho výroby.

[Catalyst for complete oxidation of volatile organic compounds based on geopolymer and process for its preparation.]

Praha : Úřad průmyslového vlastnictví, 2010. Vlastník: Výzkumný ústav anorganické chemie, a. s. - Ústav fyzikální chemie J. Heyrovského AV ČR, v. v. i. Datum udělení patentu: 25.06.2010. Číslo patentu: 301936

Bortnovsky, O. - Tokarová, V. - Wichterlová, Blanka^G - Dědeček, Jiří - Sobalík, Zdeněk - Gonsiorová, O. - Balgová, V.

Způsob výroby zeolitů pentasilové struktury s řízenou distribucí hliníkových atomů ve skeletu.

[Process for preparing zeolites of pentasil structure with controlled distribution of aluminium ions within skeleton.]

Praha : Úřad průmyslového vlastnictví, 2010. Vlastník: Výzkumný ústav anorganické chemie, a. s. - Ústav fyzikální chemie J. Heyrovského AV ČR, v. v. i. Datum udělení patentu: 25.06.2010. Číslo patentu: 301937

Ouchi, A. - Pola, Josef^G - Bastl, Zdeněk - Vacek, Karel - Šubrt, Jan - Boháček, Jaroslav

Method of Manufacturing Carbon Material.

2010. Vlastník: National Institute of Advanced Industrial and Technology. Datum udělení patentu: 07.04.2010. Číslo patentu: JP4446783