

Institute of Chemical Process Fundamentals of the ASCR, v. v. i.

ASEP Publications

Document types: Impacted Journal Article, Journal Article, Monograph, Monograph Chapter, Proceedings Paper (International conf.), Proceedings Paper (Czech conf.)

Year(s): 2014

Database: ASEP

0429474 - UCHP-M 2015 GR eng C - Proceedings Paper (International conf.)

Matějková, Martina - Papežová, Barbora - Šnajdaufová, Hana - Šolcová, Olga

Removal of Phenols from Water by Sorption Technique.

Book of Abstracts. Thessaloniki : Grafima Publ, 2014 - (Liakopoulos, A.; Kungolos, A.; Christodoulatos, C.; Koutsospyros, A.), s. 44 ISBN 978-960-88490-5-1.

[International Conference on Protection and Restoration of the Environment /12./. Skiathos island (GR), 29.06.2014-03.07.2014]

Not R&D Projects: RFCS(XE) RFCR-CT-2011-00002

Institutional Support: RVO:67985858

Keywords: water treatment * sorbent * phenol removal

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

Permanent link: <http://hdl.handle.net/11104/0234584>

- [Inst. Repository](#)

0432025 - UCHP-M 2015 CZ cze C - Proceedings Paper (International conf.)

Matějková, Martina - Papežová, Barbora - Soukup, Karel - Šolcová, Olga

Sorpce kontaminantů z vod po podzemním zplyňování uhlí.

[Sorption of Contaminants from Waters after Underground Coal Gasification.]

Program a seznam účastníků. Praha : Česká společnost průmyslové chemie, 2014, s. 28. ISBN 978-80-86238-61-6.

[mezinárodní chemicko-technologická konference /2./. Mikulov (CZ), 07.04.201-09.04.2014]

Not R&D Projects: RFCS RFCR-CT-2011-00002

Institutional Support: RVO:67985858

Keywords: sorption * UCG * active carbon

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

Matějková, Martina

Permanent link: <http://hdl.handle.net/11104/0236520>

- [Inst. Repository](#)

0428863 - UCHP-M 2015 SK eng C - Proceedings Paper (International conf.)

Matějková, Martina - Soukup, Karel - Šnajdaufová, Hana - Beneš, Ondřej - Šolcová, Olga

Treatment of UCG Post-Processing Water by Sorption Techniques.

Proceedings. Bratislava : AXIMA Graphics Design & Printing Services, 2014, s. 9 ISBN 978-80-89475-13-1.

[International Conference of Slovak Society of Chemical Engineering /41./. Tatranské Matliare (SK), 26.05.2014-30.05.2014]

R&D Projects: GA TA ČR TE01020080

Not R&D Projects: RFCS(XE) RFCR-CT-2011-00002

Institutional Support: RVO:67985858

Keywords: sorption * water purification * UCG

Subject RIV: CA - Inorganic Chemistry

Permanent link: <http://hdl.handle.net/11104/0234099>

- [Inst. Repository](#)

0429376 - UCHP-M 2015 FR eng C - Proceedings Paper (International conf.)

Matějová, Lenka - Matěj, Z. - Brunátová, T. - Dřínek, Vladislav - Peikertová, P.

Optimization of Extraction Procedure using Supercritical and Pressurized Methanol and Water for Preparation of TiO₂-CeO₂ and ZrO₂ Nanostructured Powders.

Book of Abstracts. Marseille : International Society for Advancement of Supercritical Fluids, 2014, s. 163. ISBN 978--37111-002-1.

[European Meeting on Supercritical Fluids /14./. Marseille (FR), 18.05.2014-21.05.2014]

R&D Projects: GA ČR GA14-23274S

Institutional Support: RVO:67985858

Keywords: TiO₂-CeO₂ * ZrO₂ * catalysts

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

Permanent link: <http://hdl.handle.net/11104/0234505>

- [Inst. Repository](#)

0429357 - UCHP-M 2015 FR eng C - Proceedings Paper (International conf.)

Matějová, Lenka - Sajfrtová, Marie - Matěj, Z. - Fajgar, Radek

TiO₂ Thin Films Prepared by using Supercritical and Pressurized Fluids: The Effect of Various Extraction Conditions on Micro/Structural Properties of Thin Films.

Book of Abstracts. Marseille : International Society for Advancement of Supercritical Fluids, 2014, s. 161. ISBN 978--37111-002-1.

[European Meeting on Supercritical Fluids /14./. Marseille (FR), 18.05.2014-21.05.2014]

R&D Projects: GA ČR GA14-23274S

Institutional Support: RVO:67985858

Keywords: TiO₂ * thin layers * supercritical fluids

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

Permanent link: <http://hdl.handle.net/11104/0234484>

- [Inst. Repository](#)

0432069 - UCHP-M 2015 CZ eng C - Proceedings Paper (International conf.)

Morávková, Lenka - Vejražka, Jiří - Vychodilová, Hana - Sedláková, Zuzana - Izák, Pavel

Hexane and Isooctane Permeation in Membrane Containing Ionic Liquid.

Program a seznam účastníků. Praha : Česká společnost průmyslové chemie, 2014, s. 22. ISBN 978-80-86238-61-6.

[mezinárodní chemicko-technologická konference /2./. Mikulov (CZ), 07.04.201-09.04.2014]

R&D Projects: GA MŠk(CZ) LD13018

Institutional Support: RVO:67985858

Keywords: liquid extraction * volatile organic compounds * permeation experiments

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

Permanent link: <http://hdl.handle.net/11104/0236547>

- [Inst. Repository](#)

0431391 - UCHP-M 2015 CZ eng C - Proceedings Paper (International conf.)

Morávková, Lenka - Vopička, O. - Vejražka, Jiří - Vychodilová, Hana - Sedláková, Zuzana - Friess, K. - Izák, Pavel

Organic Vapour Sorption and Permeation in Polymer Gel Membrane Containing Imidazolium Based Ionic Liquid.

Final program. Prague : Orgit, 2014, s. 75. ISBN 978-80-02-02555-9.

[International Congress of Chemical and Process Engineering /21./ - CHISA 2014 and Conference on Process Integration, Modelling and Optimisation for Energy Saving and Pollution Reduction /17./ - PRES 2014. Prague (CZ), 23.08.2014-27.08.2014]

R&D Projects: GA ČR GA14-12695S; GA TA ČR TE01020080; GA MŠk(CZ) LD13018

Institutional Support: RVO:67985858

Keywords: volatile organic compound * acetone * ionic liquids

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

Permanent link: <http://hdl.handle.net/11104/0235932>

- [Inst. Repository](#)

0429233 - UCHP-M 2015 SK eng C - Proceedings Paper (International conf.)

Morávková, Lenka - Vejražka, Jiří - Vychodilová, Hana - Sedláková, Zuzana - Izák, Pavel

Vapour Permeations in Fluoropolymer Gel Membrane Based on Ionic Liquid 1-Ethyl-3-Methylimidazolium bis(trifluoromethylsulfonyl)Imide.

Proceedings. Bratislava : AXIMA Graphics Design & Printing Services, 2014, s. 211 ISBN 978-80-89475-13-1.

[International Conference of Slovak Society of Chemical Engineering /41./. Tatranské Matliare (SK), 26.05.2014-30.05.2014]

R&D Projects: GA TA ČR TE01020080; GA ČR GA14-12695S; GA MŠk(CZ) LD14094

Institutional Support: RVO:67985858

Keywords: transport properties * hexane * isooctane

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

Permanent link: <http://hdl.handle.net/11104/0234372>

- [Inst. Repository](#)

0428864 - UCHP-M 2015 SK eng C - Proceedings Paper (International conf.)

Morozová, Magdalena - Spáčilová, Lucie - Maléterová, Ywetta - Beneš, Ondřej - Dragounová, Pavlína - Šolcová, Olga

Photocatalytical Arrangement for the Endocrine Disruptor Decontamination.

Proceedings. Bratislava : AXIMA Graphics Design & Printing Services, 2014, s. 25 ISBN 978-80-89475-13-1.

[International Conference of Slovak Society of Chemical Engineering /41./. Tatranské Matliare (SK), 26.05.2014-30.05.2014]

R&D Projects: GA TA ČR TA03010548

Institutional Support: RVO:67985858

Keywords: endocrine disruptor * photocatalytical wastewater treatment * titanium dioxide

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

Permanent link: <http://hdl.handle.net/11104/0234100>

- [Inst. Repository](#)

0429473 - UCHP-M 2015 GR eng C - Proceedings Paper (International conf.)

Morozová, Magdalena - Klusůň, Petr - Matějková, Martina - Šnajdaufová, Hana - Šolcová, Olga

Photocatalytical Elimination of Industrial Dyes in Wastewater.

Book of Abstracts. Thessaloniki : Grafima Publ, 2014 - (Liakopoulos, A.; Kungolos, A.; Christodoulatos, C.; Koutsospyros, A.), s. 43 ISBN 978-960-88490-5-1.

[International Conference on Protection and Restoration of the Environment /12./. Skiathos island (GR), 29.06.2014-03.07.2014]

R&D Projects: GA TA ČR TA01020804; GA TA ČR TA03010548

Not R&D Projects: NATO(US) SPS984398

Institutional Support: RVO:67985858

Keywords: titanium dioxide * azo dye * water purification

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

Permanent link: <http://hdl.handle.net/11104/0234583>

- [Inst. Repository](#)

0431378 - UCHP-M 2015 CZ eng C - Proceedings Paper (International conf.)

Morozová, Magdalena - Klusůň, Petr - Krýsa, J. - Šolcová, Olga

The Influence of Rutile Particles on Photo-induced Activity of the Sol-gel TiO₂/ITO Photoanode.

Final program. Prague : Orgit, 2014, s. 98. ISBN 978-80-02-02555-9.

[International Congress of Chemical and Process Engineering /21./ - CHISA 2014 and Conference on Process Integration, Modelling and Optimisation for Energy Saving and Pollution Reduction /17./ - PRES 2014. Prague (CZ), 23.08.2014-27.08.2014]

R&D Projects: GA TA ČR TA03010548; GA TA ČR TA01020804

Institutional Support: RVO:67985858

Keywords: photocatalytic activity * titanium dioxide * sol-gel

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

Morozová, Magdalena

Permanent link: <http://hdl.handle.net/11104/0235923>

- [Inst. Repository](#)

0431187 - UCHP-M 2015 RIV CZ eng C - Proceedings Paper (International conf.)

Morozová, Magdalena - Klusoň, Petr - Dzik, P. - Veselý, M. - Baudys, M. - Krýsa, J. - Šolcová, Olga

The Influence of Various Deposition Techniques on the Structural and Photoelectrochemical Properties of the thin TiO₂ Films.

Proceedings of the 6th Czech-Austrian workshop. Prague : KANAG -TISK, 2014 - (Krýsa, J.; Klusoň, P.), s. 14-15 ISBN 978-80-7080-886-3.

[Czech-Austrian Workshop: New Trends in Photo and Electro Catalysis /6./. Hnanice (CZ), 02.12.2013-04.12.2013]

R&D Projects: GA TA ČR TA01020804

Not R&D Projects: GA ČR(CZ) GP104/09/P165; GA ČR(CZ) GAP108/12/2104

Institutional Support: RVO:67985858

Keywords: thin films * nanostructured electrode material * TiO₂ layers

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

Morozová, Magdalena

Permanent link: <http://hdl.handle.net/11104/0235789>

- [Inst. Repository](#)

0429382 - UCHP-M 2015 FR eng C - Proceedings Paper (International conf.)

Nistor, A. - Rygl, A. - Sajfřtová, Marie - Bobák, M. - Kosek, J.

Microcellular Polystyrene Foams: Improved Heat Insulators.

Book of Abstracts. Marseille : International Society for Advancement of Supercritical Fluids, 2014, s. 120. ISBN 978--37111-002-1.

[European Meeting on Supercritical Fluids /14./. Marseille (FR), 18.05.2014-21.05.2014]

R&D Projects: GA ČR GA14-23274S

Institutional Support: RVO:67985858

Keywords: polystyrene * foams * supercritical carbon dioxide

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

Permanent link: <http://hdl.handle.net/11104/0234508>

- [Inst. Repository](#)

0431428 - UCHP-M 2015 CZ eng C - Proceedings Paper (International conf.)

Nistor, A. - Rygl, A. - Sajfřtová, Marie - Bobák, M. - Kosek, J.

Preparation and Characterization of Micro- and Nanocellular Polystyrene Foams.

Final program. Prague : Orgit, 2014, s. 45. ISBN 978-80-02-02555-9.

[International Congress of Chemical and Process Engineering /21./ - CHISA 2014 and Conference on Process Integration, Modelling and Optimisation for Energy Saving and Pollution Reduction /17./ - PRES 2014. Prague (CZ), 23.08.2014-27.08.2014]

Institutional Support: RVO:67985858

Keywords: nanocellular polystyrene foams * spinodal decomposition * solvent residua

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

Nistor, A.

Permanent link: <http://hdl.handle.net/11104/0236017>

- [Inst. Repository](#)

0428862 - UCHP-M 2015 SK eng C - Proceedings Paper (International conf.)

Obalová, L. - Kovanda, F. - Jiráťová, Květa

New Catalyst for Removal of N₂O from Nitric Acid Plant Tail Gases.

Proceedings. Bratislava : AXIMA Graphics Design & Printing Services, 2014, s. 3 ISBN 978-80-89475-13-1.

[International Conference of Slovak Society of Chemical Engineering /41./. Tatranské Matliare (SK), 26.05.2014-30.05.2014]

R&D Projects: GA TA ČR TA01020336

Not R&D Projects: GA MŠk(CZ) LO1208

Institutional Support: RVO:67985858

Keywords: nitrous oxide * catalytic decomposition * mixed oxide catalyst

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

Permanent link: <http://hdl.handle.net/11104/0234098>

- [Inst. Repository](#)

0428077 - UCHP-M 2015 CZ eng C - Proceedings Paper (International conf.)

Ondráček, Jakub - Mašková, Ludmila - Smolík, Jiří

Basamatikum - Aerosol Spectrometer for Wide Size Range Indoor/Outdoor Measurements.

Programme and Abstract book. Prague : -, 2014, s. 30. ISBN N.

[International Conference Indoor Air Quality in Heritage and Historic Environments /11./. Prague (CZ), 13.04.2014-16.04.2014]

R&D Projects: GA MK DF11P01OVV020

Keywords: indoor/outdoor particels * switching valve * APS

Subject RIV: CF - Physical & Theoretical Chemistry

Permanent link: <http://hdl.handle.net/11104/0233462>

- [Inst. Repository](#)

0431228 - UCHP-M 2015 CZ eng C - Proceedings Paper (International conf.)

Pacultová, K. - Karásková, K. - Strakošová, J. - Matějka, V. - Študentová, S. - Jiráťová, Květa - Obalová, L.

Effect of Precursor Synthesis on Catalytic Activity of Co₃O₄ in N₂O Decomposition.

Chemické listy 108(8). Praha : Česká společnost chemická, 2014, s. 815. ISSN 0009-2770.

[Sjezd asociací českých a slovenských chemických společností /66./. Ostrava (CZ), 07.09.2014-10.09.2014]

R&D Projects: GA ČR GA14-13750S

Not R&D Projects: GA MŠMT(CZ) LO1208

Institutional Support: RVO:67985858

Keywords: decomposition * catalysts * Co-Mn-Al

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

Pacultová, K.

Permanent link: <http://hdl.handle.net/11104/0235806>

- [Inst. Repository](#)

0432029 - UCHP-M 2015 CZ cze C - Proceedings Paper (International conf.)

Papežová, Barbora - Hanika, Jiří - Matějková, Martina - Šolcová, Olga

Sorbenty pro odstranění fenolových látek z kontaminovaných vod.

[Sorbents for Phenol Removal from Contaminated Waters.]

Program a seznam účastníků. Praha : Česká společnost průmyslové chemie, 2014, s. 28. ISBN 978-80-86238-61-6.

[mezinárodní chemicko-technologická konference /2./. Mikulov (CZ), 07.04.201-09.04.2014]

Not R&D Projects: RFCS RFCR-CT-2011-00002

Institutional Support: RVO:67985858

Keywords: water purification * sorption * phenol

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

Papežová, Barbora

Permanent link: <http://hdl.handle.net/11104/0236521>

- [Inst. Repository](#)

0429713 - UCHP-M 2015 NL eng C - Proceedings Paper (International conf.)

Pavlíček, Jan - Bogdanić, Grozdana - Wichterle, Ivan

Isothermal Vapor-Liquid Equilibria in Diluted Poly(Methyl Methacrylate) + Butan-2-One Systems.

Book of Abstracts. Eindhoven : -, 2014, P36. ISBN N.

[European Symposium on Applied Thermodynamics (ESAT 2014) "Experiments meet Theory and Simulation" /27./. Eindhoven (NL), 06.07.2014-09.07.2014]

Institutional Support: RVO:67985858

Keywords: phase equilibria * polymer * solvent

Subject RIV: CF - Physical & Theoretical Chemistry

Permanent link: <http://hdl.handle.net/11104/0234770>

- [Inst. Repository](#)

0431459 - UCHP-M 2015 CZ eng C - Proceedings Paper (International conf.)

Pavlíček, Jan - Bogdanić, Grozdana - Wichterle, Ivan

Isothermal Vapor-Liquid Equilibria in the Diluted Polystyrene + Toluene System.

Final program. Prague : Orgit, 2014, s. 96. ISBN 978-80-02-02555-9.

[International Congress of Chemical and Process Engineering /21./ - CHISA 2014 and Conference on Process Integration, Modelling and Optimisation for Energy Saving and Pollution Reduction /17./ - PRES 2014. Prague (CZ), 23.08.2014-27.08.2014]

Institutional Support: RVO:67985858

Keywords: vapour-liquid equilibria * experimental data * microebulliometer

Subject RIV: CF - Physical & Theoretical Chemistry

Permanent link: <http://hdl.handle.net/11104/0236038>

- [Inst. Repository](#)

0432094 - UCHP-M 2015 RIV CZ eng C - Proceedings Paper (International conf.)

Pavlorková, Jana - Křišťál, Jiří - Drhová, Magdalena - Hejda, S. - Klusůň, Petr

Homogeneous Catalytic Hydrogenations and Photocatalytic Reactions in Microstructured Reactor Systems.

Proceedings of the 2nd International Conference on Chemical Technology. Prague : Czech Society of Industrial Chemistry, 2014 - (Kalenda, P.; Lubojacký, J.), s. 231-232 ISBN 978-80-86238-64-7.

[mezinárodní chemicko-technologická konference /2./. Mikulov (CZ), 07.04.2014-09.04.2014]

Institutional Support: RVO:67985858

Keywords: microstructured reactor * hydrogenation * photochemical oxidation

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

<http://www.icct.cz>

Pavlorková, Jana

Permanent link: <http://hdl.handle.net/11104/0236565>

- [Inst. Repository](#)

0431190 - UCHP-M 2015 RIV HU eng C - Proceedings Paper (International conf.)

Pavlorková, Jana - Křišťál, Jiří - Klusůň, Petr

Homogeneous Catalytic Transfer Hydrogenation in Microfluidic Flow System.

Book of Abstracts. Budapest : Budapest University of Technology and Economics, 2014, s. 207-208. ISBN 978-963--5-9518-6.

[International Conference on Microreactor Technology IMRET /13./. Budapest (HU), 23.06.2014-25.06.2014]

Institutional Support: RVO:67985858

Keywords: homogeneous catalysis * transfer hydrogenation * micro structured reactor systems

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

Pavlorková, Jana

Permanent link: <http://hdl.handle.net/11104/0235792>

- [Inst. Repository](#)

0429582 - UCHP-M 2015 CZ eng K - Proceedings Paper (Czech conf.)

Pavlorková, Jana

Homogeneously Catalyzed Transfer Hydrogenation in Microfluidic Flow Reactor.

Proceedings of abstracts. Prague : Institute of Chemical Process Fundamentals of the ASCR, v. v. i, 2014 - (Bendová, M.; Wagner, Z.), s. 17-18 ISBN 978-80-86186-61-0.

[Bažant Postgraduate Conference 2014. Prague (CZ), 19.06.2014]

Institutional Support: RVO:67985858

Keywords: microfluid flow reactor * transfer hydrogenation * microreactor

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

Permanent link: <http://hdl.handle.net/11104/0234664>

- [Inst. Repository](#)

0431388 - UCHP-M 2015 CZ eng C - Proceedings Paper (International conf.)

Pavlorková, Jana - Křišťál, Jiří - Klusůň, Petr

Methyl Acetoacetate Hydrogenation in a Microreactor Flow System.

Final program. Prague : Orgit, 2014, s. 84. ISBN 978-80-02-02555-9.

[International Congress of Chemical and Process Engineering /21./ - CHISA 2014 and Conference on Process Integration, Modelling and Optimisation for Energy Saving and Pollution Reduction /17./ - PRES 2014. Prague (CZ), 23.08.2014-27.08.2014]

Institutional Support: RVO:67985858

Keywords: microreactor flow system * methyl acetoacetate * enantioselective reactions

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

Pavlorková, Jana

Permanent link: <http://hdl.handle.net/11104/0235930>

- [Inst. Repository](#)

0431188 - UCHP-M 2015 RIV CZ eng C - Proceedings Paper (International conf.)

Pavlorková, Jana - Křišťál, Jiří - Drhová, Magdalena - Hejda, S. - Klusůň, Petr

Microreactor Platforms for Homogeneous Hydrogenations and Photocatalytic Reactions.

Proceedings of the 6th Czech-Austrian workshop. Prague : KANAG -TISK, 2014 - (Krýsa, J.; Klusůň, P.), s. 43-45 ISBN 978-80-7080-886-3.

[Czech-Austrian Workshop: New Trends in Photo and Electro Catalysis /6./. Hnanice (CZ), 02.12.2013-04.12.2013]

Institutional Support: RVO:67985858

Keywords: microreactors * homogeneous catalysis * photocatalysis

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

Pavlorková, Jana

Permanent link: <http://hdl.handle.net/11104/0235791>

- [Inst. Repository](#)

0429391 - UCHP-M 2015 CZ eng K - Proceedings Paper (Czech conf.)

Pavlorková, Jana

Microreactors for Studying Enantioselective Reactions.

Book of Abstracts. Prague : Faculty of Chemical Technology, ICT, 2014.

[Conference of Post-graduate Students. Prague (CZ), 26.06.2014]

Institutional Support: RVO:67985858

Keywords: enantioselective reactions * microreactors * molecular chirality

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

Permanent link: <http://hdl.handle.net/11104/0234515>

- [Inst. Repository](#)

0398137 - UCHP-M 2014 RIV GB eng J - Journal Article

Pohořelý, Michael - Jeremiáš, Michal - Svoboda, Karel - Kameníková, Petra - Skoblia, S. - Beňo, Z.

CO₂ as Moderator for Biomass Gasification.

Fuel. Roč. 117, PART: A (2014), s. 198-205. ISSN 0016-2361

R&D Projects: GA MŠK(CZ) 7C11009

Not R&D Projects: RFCS(XE) RFCR-CT-2010-0009

Institutional Support: RVO:67985858

Keywords: dolomite * limestone * catalyst

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

Impact factor: 3.406, year: 2013

Permanent link: <http://hdl.handle.net/11104/0226409>

- [WOS](#)
- [DOI](#)
- [Result - RIV](#)
- [Inst. Repository](#)

0432031 - UCHP-M 2015 CZ cze C - Proceedings Paper (International conf.)

Pohořelý, Michael - Svoboda, Karel - Skoblia, Sergej - Jeremiáš, Michal - Kameníková, Petra - Šyc, Michal - Parschová, H. - Cabáková, G. - Šustr, V. - Durda, Tomáš - Beňo, Z. - Punčochář, Miroslav

Čištění plynu pro vysokoteplotní palivové články s tuhým elektrolytem.

[Gas Cleaning for High Temperature Fuel Cells with Solid Electrolyte.]

Program a seznam účastníků. Praha : Česká společnost průmyslové chemie, 2014, s. 16. ISBN 978-80-86238-61-6.

[mezinárodní chemicko-technologická konference /2./, Mikulov (CZ), 07.04.201-09.04.2014]

R&D Projects: GA ČR GA14-09692J; GA TA ČR TA01020366

Institutional Support: RVO:67985858

Keywords: incineration * air enriched with oxygen * fluidized bed

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

Pohořelý, Michael

Permanent link: <http://hdl.handle.net/11104/0236523>

- [Inst. Repository](#)

0427351 - UCHP-M 2015 RIV CZ cze C - Proceedings Paper (International conf.)

Pohořelý, Michael - Svoboda, Karel - Skoblia, S. - Jeremiáš, Michal - Šyc, Michal - Kameníková, Petra - Parschová, H. - Cabáková, G. - Šustr, V. - Durda, Tomáš - Beňo, Z. - Punčochář, Miroslav

Kombinovaná výroba elektrické energie a tepla pomocí vysokoteplotních palivových článků s tuhým elektrolytem.

[Combined Production of Electric Power and Heat via High Temperature Fuel Cells with Solid Electrolyte, Combined Production of Electric Power and Heat via High Temperature Fuel Cells with Solid Electrolyte.]

Konstrukce. Ostrava-Zábřeh : KONSTRUKCE Media, 2014, s. 17-19. ISSN 1213-8762.

[ročník Mezinárodní konference Průmyslová ekologie 2014 /4./, Praha (CZ), 26.03.2014-27.03.2014]

R&D Projects: GA TA ČR TA01020366

Institutional Support: RVO:67985858

Keywords: gasification process * fuel cells * agricultural biomass

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

<http://www.konstrukce.cz>

Permanent link: <http://hdl.handle.net/11104/0232904>

- [Inst. Repository](#)

0427447 - UCHP-M 2015 CZ cze J - Journal Article

Pohořelý, Michael

Sdružení chce zvýšit důvěryhodnost oboru.

[The Association Wants to Increase the Credibility of the Field.]

Odpany. Roč. 24, č. 3 (2014), s. 16. ISSN 1210-4922

Institutional Support: RVO:67985858

Keywords: gasification * pyrolysis * waste

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

Permanent link: <http://hdl.handle.net/11104/0232969>

- [Inst. Repository](#)

0431615 - UCHP-M 2015 CZ cze C - Proceedings Paper (International conf.)

Pohořelý, Michael - Svoboda, Karel - Skoblia, S. - Jeremiáš, Michal - Šyc, Michal - Kameníková, Petra - Parschová, H. - Cabáková, G. - Šustr, V. - Durda, Tomáš - Beňo, Z. - Punčochář, Miroslav

Vysokoteplotní čištění plynu pro SOFC.

[High Temperature Gas Cleaning for SOFC.]

Sborník příspěvků. Brno : Vysoké učení technické v Brně, 2014 - (Kracík, P.; Brázdil, M.; Lisý, M.), s. 115-122 ISBN 978-80-21-5016-5.

[Energie z biomasy XV. Lednice (CZ), 09.09.2014-11.09.2014]

R&D Projects: GA TA ČR TA01020366; GA ČR GA14-09692J

Not R&D Projects: GA MŠMT(CZ) 20/2014

Institutional Support: RVO:67985858

Keywords: gasification * high temperature fuel cells * gas cleaning system

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

Permanent link: <http://hdl.handle.net/11104/0236211>

- [Inst. Repository](#)

0425389 - UCHP-M 2015 RIV GB eng J - Journal Article

Pola, Josef - Urbanová, Markéta - Pokorná, Dana - Bezdička, Petr - Kupčík, Jaroslav - Křenek, T.

Reactive Deposition of Laser Ablated FeS_{1-x} Particles on Copper Surface.

RSC Advances. Roč. 4, č. 23 (2014), s. 11543-11551. ISSN 2046-2069

Not R&D Projects: GA MŠMT(CZ) CZ.1.05/2.1.00/03.0088

Institutional Support: RVO:67985858 ; RVO:61388980

Keywords: laser ablation * reactive deposition * copper sulfide

Subject RIV: CA - Inorganic Chemistry

Impact factor: 3.708, year: 2013

Pola, Josef

Permanent link: <http://hdl.handle.net/11104/0231268>

- [WOS](#)
- [DOI](#)
- [Inst. Repository](#)

0428466 - UCHP-M 2015 RIV RS eng M - Monograph chapter

Ponec, Robert

Late Reminiscence of Unexplored Scientific Links with Ante. Parity of Kekulé Structures and Algebraic Structure Count. *Ante Graovac - Life and Works*. Kragujevac : University of Kragujevac Faculty of Science, 2014 - (Gutman, I.; Pokric, B.; Vukicevic, D.), s. 243-258 ISBN 978-86-6009-021-0. - (Mathematical Chemistry Monographs. No. 16)

Institutional Support: RVO:67985858

Keywords: parity of Kekulé structures * algebraic structure count * overlap determinant method

Subject RIV: CF - Physical & Theoretical Chemistry

<http://match.pmf.kg.ac.rs/mcm16.html>

Permanent link: <http://hdl.handle.net/11104/0233808>

- [Inst. Repository](#)

0427851 - UCHP-M 2015 RIV US eng J - Journal Article

Posel, Zbyšek - Limpouchová, Z. - Šindelka, K. - Lísal, Martin - Procházka, K.

Dissipative Particle Dynamics Study of the pH-Dependent Behavior of Poly(2-vinylpyridine)-block-poly(ethylene oxide) Diblock Copolymer in Aqueous Buffers.

Macromolecules. Roč. 47, č. 7 (2014), s. 2503-2514. ISSN 0024-9297

R&D Projects: GA ČR GCP205/11/J043

Not R&D Projects: GA ČR(CZ) GAP106/12/0143; GA MŠMT(CZ) MSM0021620857

Institutional Support: RVO:67985858

Keywords: monte-carlo simulations * union-type micelles * block-copolymer

Subject RIV: CF - Physical & Theoretical Chemistry

Impact factor: 5.927, year: 2013

Permanent link: <http://hdl.handle.net/11104/0235273>

- [WOS](#)
- [DOI](#)
- [Inst. Repository](#)

0431977 - UCHP-M 2015 RIV GB eng J - Journal Article

Posel, Zbyšek - Rousseau, B. - Lisal, Martin

Scaling Behaviour of Different Polymer Models in Dissipative Particle Dynamics of Unentangled Melts. *Molecular Simulation*. Roč. 40, č. 15 (2014), s. 1274-1289. ISSN 0892-7022

R&D Projects: GA ČR(CZ) GA13-02938S

Not R&D Projects: GA UJEP(CZ) 53222 15 0008 01; CNRS-ASRT(FR) 20206

Institutional Support: RVO:67985858

Keywords: coarse-grain potential * dissipative particle dynamics * rouse model

Subject RIV: CF - Physical & Theoretical Chemistry

Impact factor: 1.119, year: 2013

Permanent link: <http://hdl.handle.net/11104/0236495>

- [DOI](#)

0429631 - UCHP-M 2015 CZ eng K - Proceedings Paper (Czech conf.)

Poštulková, Michaela

Novel Apparatus for the Study of Gushing in Beer.

Proceedings of abstracts. Prague : Institute of Chemical Process Fundamentals of the ASCR, v. v. i, 2014 - (Bendová, M.; Wagner, Z.), s. 36 ISBN 978-80-86186-61-0.

[Bažant Postgraduate Conference 2014. Prague (CZ), 19.06.2014]

Institutional Support: RVO:67985858

Keywords: gushing * foams * beer

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

Permanent link: <http://hdl.handle.net/11104/0234703>

- [Inst. Repository](#)

0429576 - UCHP-M 2015 CZ eng K - Proceedings Paper (Czech conf.)

Rotrekl, Jan

Structure of Ionic Liquids and their Mixtures with Molecular Solvents.

Proceedings of abstracts. Prague : Institute of Chemical Process Fundamentals of the ASCR, v. v. i, 2014 - (Bendová, M.; Wagner, Z.), s. 10-11 ISBN 978-80-86186-61-0.

[Bažant Postgraduate Conference 2014. Prague (CZ), 19.06.2014]

R&D Projects: GA MŠK LD14090

Institutional Support: RVO:67985858

Keywords: molecular solvent * ionic liquids * thermodynamic characterization

Subject RIV: CF - Physical & Theoretical Chemistry

Permanent link: <http://hdl.handle.net/11104/0234658>

- [Inst. Repository](#)

0432092 - UCHP-M 2015 RIV CZ eng C - Proceedings Paper (International conf.)

Rousková, Milena - Sobek, Jiří - Maléterová, Ywetta - Kaštánek, František - Šolcová, Olga

Effect of Microalgae Cell-Disruption Method on Extraction Yield of Fatty Acids.

Proceedings of the 2nd International Conference on Chemical Technology. Prague : Czech Society of Industrial Chemistry, 2014 - (Kalenda, P.; Lubojacký, J.), s. 430-434 ISBN 978-80-86238-64-7.

[mezinárodní chemicko-technologická konference /2./. Mikulov (CZ), 07.04.2014-09.04.2014]

R&D Projects: GA TA ČR TE01020080

Institutional Support: RVO:67985858

Keywords: chlorella vulgaris * fatty acids * cell-disruption

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

<http://www.icct.cz>

Rousková, Milena

Permanent link: <http://hdl.handle.net/11104/0236563>

- [Inst. Repository](#)

0431427 - UCHP-M 2015 CZ eng C - Proceedings Paper (International conf.)

Sajfrtová, Marie - Karban, Jindřich - Sovová, Helena - Pavela, R.

Extraction Kinetics and Insecticidal Activity of Volatile Components Isolated from rue by Supercritical CO₂.

Final program. Prague : Orgit, 2014, s. 92. ISBN 978-80-02-02555-9.

[International Congress of Chemical and Process Engineering /21./ - CHISA 2014 and Conference on Process Integration, Modelling and Optimisation for Energy Saving and Pollution Reduction /17./ - PRES 2014. Prague (CZ), 23.08.2014-27.08.2014]

R&D Projects: GA TA ČR TA01010578

Institutional Support: RVO:67985858

Keywords: volatile components * ruta graveolens * extraction kinetics

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

Sajfrtová, Marie

Permanent link: <http://hdl.handle.net/11104/0236016>

- [Inst. Repository](#)

0422225 - UCHP-M 2014 RIV CH eng J - Journal Article

Sedláková, Zuzana - Clarizia, G. - Bernardo, P. - Jansen, J.C. - Slobodian, P. - Svoboda, P. - Kárászová, Magda - Friess, K. - Izák, Pavel

Carbon Nanotube- and Carbon Fiber-Reinforcement of Ethylene-Octene Copolymer Membranes for Gas and Vapor Separation.

Membranes. Roč. 4, č. 1 (2014), s. 20-39. ISSN 2077-0375

R&D Projects: GA ČR GAP106/10/1194

Not R&D Projects: GA MŠk(CZ) ED2.1.00/03.0111; MicroPERLA(IT) PON01_01840

Institutional Support: RVO:67985858

Keywords: membrane separation * mixed membrane matrix * transport properties

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

Permanent link: <http://hdl.handle.net/11104/0228394>

- [SCOPUS](#)
- [DOI](#)
- [Result - RIV](#)
- [Inst. Repository](#)

0431393 - UCHP-M 2015 CZ eng C - Proceedings Paper (International conf.)

Sedláková, Zuzana - Clarizia, G. - Bernardo, P. - Jansen, J.C. - Slobodian, P. - Svoboda, P. - Kárászová, Magda - Friess, K. - Izák, Pavel

Gas and Vapour Transport and Mechanical Properties of Carbon Nanotube and Carbon Fibre-Reinforcement of Ethylene-Octene Copolymer Membranes.

Final program. Prague : Orgit, 2014, s. 41. ISBN 978-80-02-02555-9.

[International Congress of Chemical and Process Engineering /21./ - CHISA 2014 and Conference on Process Integration, Modelling and Optimisation for Energy Saving and Pollution Reduction /17./ - PRES 2014. Prague (CZ), 23.08.2014-27.08.2014]

R&D Projects: GA ČR GA14-12695S; GA TA ČR TE01020080; GA MŠk LH14006

Not R&D Projects: MicroPERLA(IT) PON01_01840

Institutional Support: RVO:67985858

Keywords: volatile organic compounds * ethylene-octene pololymer * gas permeation

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

Sedláková, Zuzana

Permanent link: <http://hdl.handle.net/11104/0235933>

- [Inst. Repository](#)

0429236 - UCHP-M 2015 SK eng C - Proceedings Paper (International conf.)

Sedláková, Zuzana - Clarizia, G. - Bernardo, P. - Jansen, J. C. - Slobodian, P. - Svoboda, P. - Kárászová, Magda - Friess, K. - Morávková, Lenka - Izák, Pavel

Mechanical and Transport Properties of Carbon Filler-Reinforcement of Poly(ethylene-co-octene) Membranes.

Proceedings. Bratislava : AXIMA Graphics Design & Printing Services, 2014, s. 95 ISBN 978-80-89475-13-1.

[International Conference of Slovak Society of Chemical Engineering /41./. Tatranské Matliare (SK), 26.05.2014-30.05.2014]

R&D Projects: GA TA ČR TE01020080; GA ČR GA14-12695S; GA MŠk LH14006

Not R&D Projects: INP(IT) PON01_01840; GA MŠk(CZ) CZ.1.05/2.1.00/03.0111

Institutional Support: RVO:67985858

Keywords: poly(ethylene-co-octene) * carbon fibres * carbon nanotubes

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

Permanent link: <http://hdl.handle.net/11104/0234375>

0429235 - UCHP-M 2015 SK eng C - Proceedings Paper (International conf.)

Sedláková, Zuzana - Clarizia, G. - Bernardo, P. - Jansen, J. C. - Slobodian, P. - Svoboda, P. - Kárászová, Magda - Friess, K. - Morávková, Lenka - Izák, Pavel

Mechanical Properties of Carbon Filler-Reinforcement of Poly(Ethylene-co-Octene).

Proceedings. Bratislava : AXIMA Graphics Design & Printing Services, 2014, s. 230 ISBN 978-80-89475-13-1.

[International Conference of Slovak Society of Chemical Engineering /41./. Tatranské Matliare (SK), 26.05.2014-30.05.2014]

R&D Projects: GA TA ČR TE01020080; GA ČR GA14-12695S; GA MŠk LH14006

Not R&D Projects: INP(IT) PON01_01840

Institutional Support: RVO:67985858

Keywords: poly(ethylene-co-octene) * carbon fibres * carbon nanotubes

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

Permanent link: <http://hdl.handle.net/11104/0234373>

- [Inst. Repository](#)

0429239 - UCHP-M 2015 SK eng C - Proceedings Paper (International conf.)

Sedláková, Zuzana - Vejražka, Jiří - Jandová, Věra - Morávková, Lenka - Izák, Pavel

Selection of Effective Water-Swollen Membrane for Carbon Dioxide and Hydrogen Sulphide Separation.

Proceedings. Bratislava : AXIMA Graphics Design & Printing Services, 2014, s. 234 ISBN 978-80-89475-13-1.

[International Conference of Slovak Society of Chemical Engineering /41./. Tatranské Matliare (SK), 26.05.2014-30.05.2014]

R&D Projects: GA TA ČR TE01020080; GA ČR GA14-12695S; GA MŠk LH14006

Institutional Support: RVO:67985858

Keywords: biogas upgrading * carbon dioxide separation * hydrogen sulphide separation

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

Permanent link: <http://hdl.handle.net/11104/0234378>

- [Inst. Repository](#)

0424542 - UMCH-V 2014 RIV GB eng J - Journal Article

Sevšek, U. - Brus, Jiří - Jeřábek, Karel - Krajnc, P.

Post polymerisation hypercrosslinking of styrene/divinylbenzene poly(HIPE)s: creating micropores within macroporous polymer.

Polymer. Roč. 55, č. 1 (2014), s. 410-415. ISSN 0032-3861

R&D Projects: GA ČR(CZ) GA13-29009S

Institutional Support: RVO:61389013 ; RVO:67985858

Keywords: polyHIPE * hypercrosslinking * porous polymers

Subject RIV: JI - Composite Materials; CI - Industrial Chemistry, Chemical Engineering

Impact factor: 3.766, year: 2013

Permanent link: <http://hdl.handle.net/11104/0230606>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)
- [Result - RIV](#)

0422400 - UCHP-M 2014 RIV US eng J - Journal Article

Shi, S. - Gondal, M.A. - Al-Saadi, A.A. - Fajgar, Radek - Kupčík, Jaroslav - Chang, X. - Shen, K. - Xu, Q. - Seddigi, Z.S.

Facile Preparation of g-C₃N₄ Modified BiOCl Hybrid Photocatalyst and Vital Role of Frontier Orbital Energy Levels of Model Compounds in Photoactivity Enhancement.

Journal of Colloid and Interface Science. Roč. 416, FEB 15 (2014), s. 212-219. ISSN 0021-9797

Not R&D Projects: KFUPM(CN) MIT11109; KFUPM(CN) MIT11110; NNSFCH(CN) 51172044; NSFJP(CN) BK2011617

Institutional Support: RVO:67985858

Keywords: g-C₃N₄ * BiOCl * hybrid photocatalyst * gaussian 03 program * frontier orbital energy

Subject RIV: CH - Nuclear & Quantum Chemistry

Impact factor: 3.552, year: 2013

Permanent link: <http://hdl.handle.net/11104/0228536>

- [WOS](#)
- [DOI](#)
- [Result - RIV](#)
- [Inst. Repository](#)

0429664 - UCHP-M 2015 RIV HU eng C - Proceedings Paper (International conf.)

Schmidt, S.A. - Wärnå, J. - Vajglová, Zuzana - Kumar, N. - Eränen, K. - Murzin, D.Yu. - Salmi, T.

Methyl Chloride Synthesis in a Microreactor-Development of a Small Scale Production Unit.

Book of Abstracts. Budapest : Budapest University of Technology and Economics, 2014, s. 57-58. ISBN 978-963-05-9-18-6.

[International Conference on Microreactor Technology IMRET /13./. Budapest (HU), 23.06.2014-25.06.2014]

Institutional Support: RVO:67985858

Keywords: methyl chloride * chloromethane * on-site production

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

Permanent link: <http://hdl.handle.net/11104/0234743>

- [Inst. Repository](#)

0431192 - UCHP-M 2015 ES eng C - Proceedings Paper (International conf.)

Schmidt, S.A. - Vajglová, Zuzana - Eränen, K. - Murzin, D.Y. - Salmi, T.

Microreactor Technology for the On-Site Production of Methyl Chloride.

Scientific Program, No.180. Vol. Session 7. -, 2014, KN-7. ISBN N.

[International Congress on Green Process Engineering /4./. Sevilla (ES), 07.04.2014-10.04.2014]

Institutional Support: RVO:67985858

Keywords: chloromethane * intensification * microreactor

<http://www.gpe2014.org/>

Schmidt, S.A.

Permanent link: <http://hdl.handle.net/11104/0235808>

0431433 - UCHP-M 2015 CZ eng C - Proceedings Paper (International conf.)

Simoncelli, A. - Křišťál, Jiří

Frontiers of Processing: Faster, Leaner and Targeted.

Final program. Prague : Orgit, 2014, s. 51. ISBN 978-80-02-02555-9.

[International Congress of Chemical and Process Engineering /21./ - CHISA 2014 and Conference on Process Integration, Modelling and Optimisation for Energy Saving and Pollution Reduction /17./ - PRES 2014. Prague (CZ), 23.08.2014-27.08.2014]

Institutional Support: RVO:67985858

Keywords: fluids processing * microprocessing * frontiers

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

Simoncelli, A.

Permanent link: <http://hdl.handle.net/11104/0236024>

- [Inst. Repository](#)

0429529 - UCHP-M 2015 DE eng C - Proceedings Paper (International conf.)

Skoblia, S. - Picek, I. - Beňo, Z. - Pohorelý, Michael

Design and Commercial Application of Two-Stage Fixed Bed Gasifier in Czech Republic.

Programme and abstracts. Dresden : Technische Universität Bergakademie Freiberg, 2014, s. 15. ISBN N.

[International Freiberg Conference Coal Conversion and Syngas /6./. Dresden (DE), 19.05.2014-22.05.2014]

Institutional Support: RVO:67985858

Keywords: bed gasifier * gas efficiency * commercial project

Subject RIV: CI - Industrial Chemistry, Chemical Engineering

Permanent link: <http://hdl.handle.net/11104/0234621>

- [Inst. Repository](#)