

Institute of Inorganic Chemistry of the CAS, v. v. i.

ASEP Publications

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

Year(s): 2018

Database: ASEP

0483848 - ÚACH 2019 RIV NL eng J - Journal Article

Bábek, O. - Faměra, Martin - Hladil, Jindřich - Kapusta, J. - Weinerová, Hedvika - Šimíček, D. - Slavík, Ladislav - Ďurišová, Jana

Origin of red pelagic carbonates as an interplay of global climate and local basin factors: Insight from the Lower Devonian of the Prague Basin, Czech Republic.

Sedimentary geology. Roč. 364, FEB (2018), s. 71-88. ISSN 0037-0738

R&D Projects: GA ČR(CZ) GA14-181835

Institutional Support: RVO:61388980 ; RVO:67985831

Keywords: Bottom redox conditions * Geochemistry * Palaeoceanography * Spectral reflectance * Pragian stage * Red pelagic carbonates * Trophic levels

Subject RIV: DD - Geochemistry; DB - Geology & Mineralogy

Obor OECD: Geology; Mineralogy (GLU-S)

Impact factor: 3.244, year: 2018

Bábek, O. Hladil, Jindřich

- Kapusta, J.

- Weinerová, Hedvika

- Šimíček, D.

- Slavík, Ladislav

- Ďurišová, Jana

Permanent link: <http://hdl.handle.net/11104/0282017>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)
- [Result - R&D](#)

0492682 - ÚACH 2019 RIV GB eng J - Journal Article

Bakardjiev, Mario - Tok, Oleg L. - Růžička, A. - Růžičková, Z. - Holub, Josef - Hnyk, Drahomír - Špalt, Zbyněk - Fanfrlík, Jindřich - Štíbr, Bohumil

Methyl camouflage in the ten-vertex closo-dicarbaborane(10) series. Isolation of closo-1,6-R₂C₂B₈Me₈ (R = H and Me) and their monosubstituted analogues.

Dalton Transactions. Roč. 47, č. 32 (2018), s. 11070-11076. ISSN 1477-9226

R&D Projects: GA ČR(CZ) GA16-01618S

Institutional Support: RVO:61388980 ; RVO:61388963

Keywords: carboranes * anion * clusters * cb11h12 * boranes * cage

Subject RIV: CA - Inorganic Chemistry; CF - Physical & Theoretical Chemistry

Obor OECD: Inorganic and nuclear chemistry; Physical chemistry (UOCHB-X)

Impact factor: 4.052, year: 2018

Štíbr, Bohumil

Permanent link: <http://hdl.handle.net/11104/0286093>

- [SCOPUS](#)
- [WOS](#)
- [PUBMED](#)
- [DOI](#)
- [Result - R&D](#)

0497369 - ÚACH 2019 RIV GB eng J - Journal Article

Bakardjiev, Mario - Tok, Oleg L. - Růžička, A. - Růžičková, Z. - Holub, Josef - Hnyk, Drahomír - Fanfrlík, Jindřich - Štíbr, Bohumil

Quantitative syntheses of permethylated closo-1,10-R₂C₂B₈Me₈ (R = H, Me) carboranes. Egg-shaped hydrocarbons on the Frontier between inorganic and organic chemistry.

RSC Advances. Roč. 8, č. 67 (2018), s. 38238-38244. ISSN 2046-2069

R&D Projects: GA ČR(CZ) GA16-01618S

Institutional Support: RVO:61388980 ; RVO:61388963

Keywords: Hydrocarbons * Air stability * Thermal rearrangement

Subject RIV: CA - Inorganic Chemistry; CF - Physical & Theoretical Chemistry

Obor OECD: Inorganic and nuclear chemistry; Physical chemistry (UOCHB-X)

Impact factor: 3.049, year: 2018

Štíbr, Bohumil

Permanent link: <http://hdl.handle.net/11104/0289949>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)
- [Result - R&D](#)
- [Inst. Repository](#)

0488488 - ÚACH 2019 RIV US eng J - Journal Article

Bakardjiev, Mario - Štíbr, Bohumil - Tok, Oleg L. - Holub, Josef

Unusual Closure of the Ten-Vertex Nido Cage via Alkylation: Regiospecific Synthesis of 3-Alkyl Derivatives of closo-1,2-C₂B₈H₁₀. *Inorganic Chemistry*. Roč. 57, č. 3 (2018), s. 1368-1372. ISSN 0020-1669

R&D Projects: GA ČR(CZ) GA16-01618S

Institutional Support: RVO:61388980

Keywords: electrophilic halogenation * nido-5,6-c₂b₈h₁₂ * carboranes * decaborane * boranes * 5,6-dicarba-nido-decaborane(12)

Subject RIV: CA - Inorganic Chemistry

Obor OECD: Inorganic and nuclear chemistry

Impact factor: 4.850, year: 2018

Štíbr, Bohumil

Permanent link: <http://hdl.handle.net/11104/0283075>

- [SCOPUS](#)
- [WOS](#)
- [PUBMED](#)
- [DOI](#)
- [Result - R&D](#)

0490488 - ÚACH 2019 RIV NL eng J - Journal Article

Barbieriková, Z. - Plížingrová, Eva - Motlochová, Monika - Bezdička, Petr - Boháček, Jaroslav - Dvoranová, D. - Mazúr, M. - Kupčík, Jaroslav - Jirkovský, Jaromír - Šubrt, Jan - Krýsa, J. - Brezová, V.

N-Doped titanium dioxide nanosheets: Preparation, characterization and UV/visible-light activity.

Applied Catalysis B - Environmental. Roč. 232, SEP (2018), s. 397-408. ISSN 0926-3373

R&D Projects: GA MŠK(CZ) LM2015073; GA MŠK(CZ) 8X17016

Institutional Support: RVO:61388980 ; RVO:61388955

Keywords: N-Doped titanium dioxide * Photocatalysis * EPR spectroscopy * Lyophilization * Spin trapping

Subject RIV: CA - Inorganic Chemistry; CF - Physical & Theoretical Chemistry

Obor OECD: Inorganic and nuclear chemistry; Atomic, molecular and chemical physics (physics of atoms and molecules including collision, interaction with radiation, magnetic resonances, Mössbauer effect) (UFCH-W)

Impact factor: 14.229, year: 2018

Plížingrová, Eva

- Brezová, V.

Permanent link: <http://hdl.handle.net/11104/0284716>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)
- [Result - R&D](#)

0486864 - ÚACH 2019 RIV NL eng J - Journal Article

Benkocká, M. - Kolářová, K. - Matoušek, J. - Semerádková, A. - Šícha, Václav - Kolská, Z.

Nanocomposite of polystyrene foil grafted with metallaboranes for antimicrobial activity.

Applied Surface Science. Roč. 441, MAY (2018), s. 120-129. ISSN 0169-4332

R&D Projects: GA MŠK(CZ) LM2015073

Institutional Support: RVO:61388980

Keywords: Antimicrobial activity * Chemical grafting * Metallaboranes * Piranha solution * Polystyrene * Surface properties

Subject RIV: CA - Inorganic Chemistry

Obor OECD: Inorganic and nuclear chemistry

Impact factor: 5.155, year: 2018

Benkocká, M.

Permanent link: <http://hdl.handle.net/11104/0282015>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)
- [Result - R&D](#)

0487104 - ÚACH 2018 RIV NL eng J - Journal Article

Bubeníková, M. - Ecorchard, Petra - Sztarmáry, L. - Mrózek, Ondřej - Salačová, P. - Tolasz, Jakub

Sorption of Sr(II) onto nanocomposites of graphene oxide-polymeric matrix.
Journal of Radioanalytical and Nuclear Chemistry. Roč. 315, č. 2 (2018), s. 263-272. ISSN 0236-5731
R&D Projects: GA TA ČR(CZ) TA04020222
Institutional Support: RVO:61388980
Keywords: Graphene oxide * Nanocomposite * PA66 * Polystyrene * Radiostrontium removal
Subject RIV: CA - Inorganic Chemistry
Obor OECD: Inorganic and nuclear chemistry
Impact factor: 1.186, year: 2018
Ecorchard, Petra
Permanent link: <http://hdl.handle.net/11104/0282011>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)
- [Result - R&D](#)

0501402 - ÚACH 2019 RIV RU eng J - Journal Article
Burkeyev, M. Z. - Koveleva, A. K. - Plocek, Jiří - Tazhbayev, E. M. - Burkeyeva, G. K. - Bolatbai, A. N. - Davrenbekov, S. Z.
Synthesis and Properties of Poly(Propylene Glycol Maleate Phthalate)-Styrene Copolymers as a Base of Composite Materials.
Russian Journal of Applied Chemistry. Roč. 91, č. 11 (2018), s. 1742-1749. ISSN 1070-4272
Institutional Support: RVO:61388980
Keywords: poly(propylene glycol maleate phthalate) * styrene * unsaturated polyester * curing * structural materials
Subject RIV: CA - Inorganic Chemistry
Obor OECD: Inorganic and nuclear chemistry
Impact factor: 0.508, year: 2018
Koveleva, A. K.
Permanent link: <http://hdl.handle.net/11104/0293772>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)
- [Result - R&D](#)
- [Inst. Repository](#)

0497315 - ÚACH 2019 RIV US eng J - Journal Article
Bůžek, Daniel - Demel, Jan - Lang, Kamil
Zirconium Metal-Organic Framework UiO-66: Stability in an Aqueous Environment and Its Relevance for Organophosphate Degradation.
Inorganic Chemistry. Roč. 57, č. 22 (2018), s. 14290-14297. ISSN 0020-1669
R&D Projects: GA ČR(CZ) GA16-02098S; GA MŠk(CZ) LM2015073
Institutional Support: RVO:61388980
Keywords: chemical warfare agents * HPLC analysis * pesticides
Subject RIV: CA - Inorganic Chemistry
Obor OECD: Inorganic and nuclear chemistry
Impact factor: 4.850, year: 2018
Lang, Kamil
Permanent link: <http://hdl.handle.net/11104/0289875>

- [SCOPUS](#)
- [WOS](#)
- [PUBMED](#)
- [DOI](#)
- [Result - R&D](#)

0490733 - ÚACH 2019 RIV US eng J - Journal Article
Cara, C. - Rombi, E. - Mameli, V. - Ardu, A. - Angotzi, M. S. - Nižňanský, Daniel - Musinu, A. - Cannas, C.
gamma-Fe₂O₃-M₄S₁S Sorbents for H₂S Removal: Effect of Different Porous Structures and Silica Wall Thickness.
Journal of Physical Chemistry C. Roč. 122, č. 23 (2018), s. 12231-12242. ISSN 1932-7447
Institutional Support: RVO:61388980
Keywords: Hematite * Mossbauer spectroscopy * Nanoparticles * Pore structure * Sorbents
Subject RIV: CA - Inorganic Chemistry
Obor OECD: Inorganic and nuclear chemistry
Impact factor: 4.309, year: 2018
Cannas, C.
Permanent link: <http://hdl.handle.net/11104/0284892>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)
- [Result - R&D](#)

0500280 - ÚACH 2019 CZ cze B - Monograph kniha jako celek

Červený, V. - Klokočnicková, E. - Kříženecká, S. - Milde, D. - Nižnanská, A. - Plzák, Zbyněk - Suchánek, M. - Vilímeč, J.
Kvalimetrie.

[Qualimetrics.]

1. - Ústí nad Labem: Eurachem-ČR, 2018. 104 s. ISBN 978-80-86322-11-7

Institutional Support: RVO:61388980

Keywords: metrology * measurement * chemistry

Subject RIV: CB - Analytical Chemistry, Separation

Obor OECD: Analytical chemistry

Permanent link: <http://hdl.handle.net/11104/0292383>

0487024 - ÚACH 2019 RIV GB eng J - Journal Article

Dolanský, Jiří - Henke, P. - Malá, Z. - Žárská, L. - Kubát, Pavel - Mosinger, Jiří

Antibacterial nitric oxide- and singlet oxygen-releasing polystyrene nanoparticles responsive to light and temperature triggers.

Nanoscale. Roč. 10, č. 5 (2018), s. 2639-2648. ISSN 2040-3364

R&D Projects: GA ČR(CZ) GA16-15020S

Institutional Support: RVO:61388980 ; RVO:61388955

Keywords: nanofiber materials * porphyrin photosensitizers * photophysical properties * reactive oxygen

Subject RIV: CA - Inorganic Chemistry; CF - Physical & Theoretical Chemistry

Obor OECD: Inorganic and nuclear chemistry; Physical chemistry (UFCH-W)

Impact factor: 6.970, year: 2018

Mosinger, Jiří

Permanent link: <http://hdl.handle.net/11104/0282013>

- [SCOPUS](#)
- [WOS](#)
- [PUBMED](#)
- [DOI](#)
- [Result - R&D](#)

0488749 - ÚACH 2019 RIV CH eng J - Journal Article

El Anwar, Suzan - Holub, Josef - Tok, Oleg L. - Jelínek, T. - Růžicková, Z. - Fojt, Lukáš - Šolínová, Veronika - Kašička, Václav - Grüner, Bohumír

Synthesis and selected properties of nonahalogenated 2-ammonio-decaborate anions and their derivatives substituted at N-centre.

Journal of Organometallic Chemistry. Roč. 865, SI (2018), s. 189-199. ISSN 0022-328X

R&D Projects: GA TA ČR(CZ) TH01020844

Institutional Support: RVO:61388980 ; RVO:68081707 ; RVO:61388963

Keywords: Boranes * Borate ions * Capillary electrophoresis * Cluster * Electrochemistry * Halogenations

Subject RIV: CA - Inorganic Chemistry; BO - Biophysics; CB - Analytical Chemistry, Separation

Obor OECD: Inorganic and nuclear chemistry; Biophysics (BFU-R); Analytical chemistry (UOCHB-X)

Impact factor: 2.066, year: 2018

Grüner, Bohumír

Permanent link: <http://hdl.handle.net/11104/0284392>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)
- [Result - R&D](#)

0488520 - ÚACH 2019 RIV US eng J - Journal Article

Faměra, Martin - Matys Grygar, Tomáš - Elznicová, J. - Grison, Hana

Geochemical normalization of magnetic susceptibility for investigation of floodplain sediments.

Environmental Earth Sciences. Roč. 77, č. 5 (2018), č. článku 189. ISSN 1866-6280

R&D Projects: GA ČR(CZ) GA15-00340S

Institutional Support: RVO:61388980 ; RVO:67985530

Keywords: Background functions * Geochemical normalization * Mass-specific magnetic susceptibility * Post-depositional processes * Provenance

Subject RIV: DD - Geochemistry; DE - Earth Magnetism, Geodesy, Geography

Obor OECD: Environmental sciences (social aspects to be 5.7); Physical geography (GFU-E)

Impact factor: 1.871, year: 2018

Faměra, Martin

Permanent link: <http://hdl.handle.net/11104/0283102>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)
- [Result - R&D](#)

0487093 - ÚACH 2019 RIV NL eng J - Journal Article

Faměra, Martin - Kotková, Kristýna - Tůmová, Štěpánka - Elznicová, J. - Matys Grygar, Tomáš

Pollution distribution in floodplain structure visualised by electrical resistivity imaging in the floodplain of the Litavka River, the Czech Republic.

Catena. Roč. 165, JUN (2018), s. 157-172. ISSN 0341-8162

R&D Projects: GA ČR(CZ) GA15-003405

Institutional Support: RVO:61388980

Keywords: Electric resistivity * Floodplain structure * Geophysical methods * Pollution chemostratigraphy * Post-depositional migration * Shallow subsurface

Subject RIV: DD - Geochemistry

Obor OECD: Environmental sciences (social aspects to be 5.7)

Impact factor: 3.851, year: 2018

Faměra, Martin

Permanent link: <http://hdl.handle.net/11104/0282012>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)
- [Result - R&D](#)
- [Inst. Repository](#)

0498258 - ÚOCHB 2019 RIV CH eng J - Journal Article

Fanfrlík, Jindřich - Hnyk, Drahomír

Dihalogen and Pnictogen Bonding in Crystalline Icosahedral Phosphaboranes.

Crystals. Roč. 8, č. 10 (2018), č. článku 390. ISSN 2073-4352

R&D Projects: GA ČR(CZ) GA17-080455

Institutional Support: RVO:61388963 ; RVO:61388980

Keywords: sigma hole * heteroborane * co-crystal

Subject RIV: CF - Physical & Theoretical Chemistry; CA - Inorganic Chemistry

Obor OECD: Physical chemistry; Inorganic and nuclear chemistry (UACH-T)

Impact factor: 2.061, year: 2018

<https://www.mdpi.com/2073-4352/8/10/390/htm>

Fanfrlík, Jindřich Hnyk, Drahomír

Permanent link: <http://hdl.handle.net/11104/0291125>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)
- [Result - R&D](#)
- [Inst. Repository](#)

0477502 - ÚAČH 2018 RIV DE eng J - Journal Article

Fikarová, J. - Kříženecká, S. - Elznicová, J. - Faměra, Martin - Lelková, T. - Matkovič, J. - Matys Grygar, Tomáš

Spatial distribution of organic pollutants (PAHs and polar pesticides) in the floodplain of the Ohře (Eger) River, Czech Republic.

Journal of Soils and Sediments. Roč. 18, č. 1 (2018), s. 259-275. ISSN 1439-0108

R&D Projects: GA ČR(CZ) GA15-003405

Institutional Support: RVO:61388980

Keywords: Chemostratigraphy * Floodplain architecture * Organic pollutants * PAH * Pesticides

Subject RIV: DD - Geochemistry

Obor OECD: Environmental sciences (social aspects to be 5.7)

Impact factor: 2.669, year: 2018

Matys Grygar, Tomáš

Permanent link: <http://hdl.handle.net/11104/0276283>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)
- [Result - R&D](#)
- [Inst. Repository](#)

0506411 - BFÚ 2020 RIV CZ eng C - Proceedings Paper (International conf.)

Fojt, Lukáš - Vespalec, Radim - Fojta, Miroslav - Grüner, Bohumír

Electrochemical Investigation of Different Boron Cluster Compounds in Water-based Electrolytes.

XXXVIII. Moderní elektrochemické metody. Sborník přednášek. Ústí nad Labem: Best Servis, 2018 - (Navrátil, T.; Fojta, M.; Schwarzová, K.), Č. 2018 (2018), s. 46-49. ISBN 978-80-905221-6-9.

[Moderní elektrochemické metody /38./]. Jetřichovice (CZ), 21.05.2018-25.05.2018]

R&D Projects: GA ČR GBP206/12/G151

Institutional Support: RVO:68081707 ; RVO:61388980

Keywords: boron cluster compounds * glassy carbon electrode * dpv * carboranes

Subject RIV: CF - Physical & Theoretical Chemistry; CA - Inorganic Chemistry

Obor OECD: Physical chemistry; Inorganic and nuclear chemistry (UACH-T)

Permanent link: <http://hdl.handle.net/11104/0297653>

- [WOS](#)
- [Result - R&D](#)

0489613 - ÚACH 2019 RIV US eng J - Journal Article

Gil-González, E. - Perejón, A. - Sánchez-Jiménez, P. E. - Medina-Carrasco, S. - Kupčík, Jaroslav - Šubrt, Jan - Criado, J. M. - Pérez-Maqueda, L. A.

Crystallization Kinetics of Nanocrystalline Materials by Combined X-ray Diffraction and Differential Scanning Calorimetry Experiments.

Crystal Growth & Design. Roč. 18, č. 5 (2018), s. 3107-3116. ISSN 1528-7483

Institutional Support: RVO:61388980

Keywords: nanocrystalline alloys * combined X ray diffraction * crystallization kinetics

Subject RIV: CA - Inorganic Chemistry

Obor OECD: Inorganic and nuclear chemistry

Impact factor: 4.153, year: 2018

Perejón, A.

Permanent link: <http://hdl.handle.net/11104/0283993>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)
- [Result - R&D](#)

0491941 - ÚACH 2019 RIV US eng J - Journal Article

Halleröd, J. - Ekberg, C. - Authen, T. - Bertolo, L. - Lin, M. - Grüner, Bohumír - Švehla, Jaroslav - Wagner, C. - Geist, A. - Panak, P. - Aneheim, E.

On the Basic Extraction Properties of a Phenyl Trifluoromethyl Sulfone-Based GANEX System Containing CyMe4-BTBP and TBP.

Solvent Extraction and Ion Exchange. Roč. 36, č. 4 (2018), s. 360-372. ISSN 0736-6299

GRANT EU: European Commission(XE) 323282 - SACSESS; European Commission(XE) 755171 - GENIORS

Institutional Support: RVO:61388980

Keywords: CyMe4-BTBP * FS-13 * GANEX * metal extraction * solvent extraction * TBP

Subject RIV: CA - Inorganic Chemistry

Obor OECD: Inorganic and nuclear chemistry

Impact factor: 1.831, year: 2018

Halleröd, J.

Permanent link: <http://hdl.handle.net/11104/0287877>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)
- [Result - R&D](#)
- [Inst. Repository](#)

0495195 - ÚACH 2019 RIV NL eng J - Journal Article

Henych, Jiří - Štengl, Václav - Mattsson, A. - Tolasz, Jakub - Österlund, L.

Chemical warfare agent simulant DMMP reactive adsorption on TiO₂/graphene oxide composites prepared via titanium peroxo-complex or urea precipitation.

Journal of Hazardous Materials. Roč. 359, OCT (2018), s. 482-490. ISSN 0304-3894

NATO(US) SPS984599; AV ČR(CZ) MSM200321601

Science for Peace and Security; Program na podporu mezinárodní spolupráce začínajících výzkumných pracovníků

Institutional Support: RVO:61388980

Keywords: nanocrystalline metal-oxides * dimethyl methylphosphonate * graphene-oxide * photocatalytic activity * TiO₂ surfaces * In situ DRIFT spectroscopy

Subject RIV: CA - Inorganic Chemistry

Obor OECD: Inorganic and nuclear chemistry

Impact factor: 7.650, year: 2018

Henych, Jiří

Permanent link: <http://hdl.handle.net/11104/0288216>

- [SCOPUS](#)
- [WOS](#)
- [PUBMED](#)
- [DOI](#)
- [Result - R&D](#)

0491032 - ÚACH 2019 RIV GB eng J - Journal Article

Holub, Josef - Růžičková, Z. - Hobza, Pavel - Fanfrlík, Jindřich - Hnyk, Drahomír - Růžička, A.

Various types of non-covalent interactions contributing towards crystal packing of halogenated diphospha-dicarbaborane with an open pentagonal

belt.

New Journal of Chemistry. Roč. 42, č. 13 (2018), s. 10481-10483. ISSN 1144-0546

R&D Projects: GA ČR(CZ) GA17-08045S

Institutional Support: RVO:61388980 ; RVO:61388963

Keywords: halogenated diphospha-dicarbaborane * bond

Subject RIV: CA - Inorganic Chemistry; CF - Physical & Theoretical Chemistry

Obor OECD: Inorganic and nuclear chemistry; Physical chemistry (UOCHB-X)

Impact factor: 3.069, year: 2018

Hobza, Pavel

- Fanfrlík, Jindřich

- Hnyk, Drahomír

- Růžička, A.

Permanent link: <http://hdl.handle.net/11104/0285109>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)
- [Result - R&D](#)
- [Inst. Repository](#)

0495737 - ÚACH 2019 RIV NL eng J - Journal Article

Hošek, Michal - Matys Grygar, Tomáš - Elznicová, J. - Faméra, Martin - Popelka, J. - Matkovič, J. - Kiss, T.

Geochemical mapping in polluted floodplains using in situ X-ray fluorescence analysis, geophysical imaging, and statistics: Surprising complexity of floodplain pollution hotspot.

Catena. Roč. 171, DEC (2018), s. 632-644. ISSN 0341-8162

R&D Projects: GA ČR(CZ) GA15-00340S

Institutional Support: RVO:61388980

Keywords: Geochemical mapping * Contamination * Electric resistivity tomography * Dipole electromagnetic profiling * Portable X-ray fluorescence * Floodplain

Subject RIV: DD - Geochemistry

Obor OECD: Environmental sciences (social aspects to be 5.7)

Impact factor: 3.851, year: 2018

Hošek, Michal

Permanent link: <http://hdl.handle.net/11104/0288664>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)
- [Result - R&D](#)
- [Inst. Repository](#)

0492724 - ÚACH 2019 RIV NL eng J - Journal Article

Hradil, David - Hradilová, J. - Holcová, K. - Bezdička, Petr

The use of pottery clay for canvas priming in Italian Baroque - An example of technology transfer.

Applied Clay Science. Roč. 165, DEC (2018), s. 135-147. ISSN 0169-1317

R&D Projects: GA ČR(CZ) GA17-25687S

Institutional Support: RVO:61388980

Keywords: Clay-based grounds * Italian Baroque paintings * Nanofossils * Powder X-ray micro-diffraction * Terracotta

Subject RIV: DB - Geology & Mineralogy

Obor OECD: Mineralogy

Impact factor: 3.890, year: 2018

Hradil, David

Permanent link: <http://hdl.handle.net/11104/0286115>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)
- [Result - R&D](#)

0489288 - ÚACH 2019 RIV SK cze M - Monograph chapter

Hradilová, J. - Hradil, David

Malířské materiály a technika Majstra Pavla z Levoče na základě studia vybraných děl.

[Painting materials and techniques of Master Paul from Levoča based on the study of selected artworks.]

Majster Pavol z Levoče. Ruky a zlato v službe ducha. Bratislava: Slovenské národné múzeum-Historické múzeum, 2018 - (Novotná, M.; Piatrová, A.), s. 63-71. ISBN 978-80-8060-415-8

Institutional Support: RVO:61388980

Keywords: Late-Gothic art * materials research * painting technique * X-ray fluorescence * gilding * Alunite

Subject RIV: AL - Art, Architecture, Cultural Heritage

Obor OECD: 6.5 Other Humanities and the Arts

Permanent link: <http://hdl.handle.net/11104/0283736>

- [Result - R&D](#)

0488571 - ÚACH 2019 RIV US eng J - Journal Article

Hynek, Jan - Zelenka, J. - Rathouský, Jiří - Kubát, Pavel - Ruml, T. - Demel, Jan - Lang, Kamil

Designing Porphyrinic Covalent Organic Frameworks for the Photodynamic Inactivation of Bacteria.

ACS Applied Materials and Interfaces. Roč. 10, č. 10 (2018), s. 8527-8535. ISSN 1944-8244

R&D Projects: GA ČR(CZ) GA16-15020S

Institutional Support: RVO:61388980 ; RVO:61388955

Keywords: antibacterial coating * biofilm * covalent organic framework * photodynamic * porphyrin * singlet oxygen

Subject RIV: CA - Inorganic Chemistry; CF - Physical & Theoretical Chemistry

Obor OECD: Inorganic and nuclear chemistry; Physical chemistry (UFCH-W)

Impact factor: 8.456, year: 2018

Lang, Kamil

Permanent link: <http://hdl.handle.net/11104/0283142>

- [SCOPUS](#)
- [WOS](#)
- [PUBMED](#)
- [DOI](#)
- [Result - R&D](#)

0494406 - ÚACH 2019 RIV GB eng J - Journal Article

Hynek, Jan - Koncošová, M. - Zelenka, J. - Křížová, I. - Ruml, T. - Kubát, Pavel - Demel, Jan - Lang, Kamil

Phosphinatophenylporphyrins tailored for high photodynamic efficacy.

Organic & Biomolecular Chemistry. Roč. 16, č. 39 (2018), s. 7274-7281. ISSN 1477-0520

R&D Projects: GA ČR(CZ) GA16-15020S; GA ČR(CZ) GA16-02098S

Institutional Support: RVO:61388980 ; RVO:61388955

Keywords: phosphinic acid groups * singlet oxygen * porphyrins * therapy

Subject RIV: CA - Inorganic Chemistry; CF - Physical & Theoretical Chemistry

Obor OECD: Inorganic and nuclear chemistry; Physical chemistry (UFCH-W)

Impact factor: 3.490, year: 2018

Lang, Kamil

Permanent link: <http://hdl.handle.net/11104/0288315>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)
- [Result - R&D](#)

0488842 - ÚACH 2019 RIV DE eng J - Journal Article

Hynek, Jan - Brázda, Petr - Rohlíček, Jan - Londesborough, Michael Geoffrey Stephen - Demel, Jan

Phosphinic Acid Based Linkers: Building Blocks in Metal-Organic Framework Chemistry.

Angewandte Chemie - International Edition. Roč. 57, č. 18 (2018), s. 5016-5019. ISSN 1433-7851

R&D Projects: GA ČR(CZ) GA16-02098S; GA MŠK(CZ) LO1603

GRANT EU: European Commission(CZ) CZ.2.16/3.1.00/24510

Institutional Support: RVO:61388980 ; RVO:68378271

Keywords: Coordination polymers * Electron diffraction * Iron * Metal-organic frameworks * Phosphinic acids

Subject RIV: CA - Inorganic Chemistry

Obor OECD: Inorganic and nuclear chemistry

Impact factor: 12.257, year: 2018

Demel, Jan

Permanent link: <http://hdl.handle.net/11104/0284202>

- [SCOPUS](#)
- [WOS](#)
- [PUBMED](#)
- [DOI](#)
- [Result - R&D](#)

0497329 - ÚACH 2019 RIV DE eng J - Journal Article

Hynek, Jan - Jurík, S. - Koncošová, M. - Zelenka, J. - Křížová, I. - Ruml, T. - Kiracki, Kaplan - Jakubec, Ivo - Kovanda, F. - Lang, Kamil - Demel, Jan

The nanoscaled metal-organic framework ICR-2 as a carrier of porphyrins for photodynamic therapy.

Beilstein Journal of Nanotechnology. Roč. 9, NOV (2018), s. 2960-2967. ISSN 2190-4286

R&D Projects: GA ČR(CZ) GA16-02098S

Institutional Support: RVO:61388980

Keywords: metal-organic framework * phosphinic acid based MOF * photodynamic therapy * porphyrin * singlet oxygen

Subject RIV: CA - Inorganic Chemistry
Obor OECD: Inorganic and nuclear chemistry
Impact factor: 2.269, year: 2018
Demel, Jan
Permanent link: <http://hdl.handle.net/11104/0290514>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)
- [Result - R&D](#)
- [Inst. Repository](#)

0492669 - ÚACH 2019 RIV DE eng J - Journal Article

Ivanov, A. A. - Falaise, C. - Abramov, P. A. - Shestopalov, M.A. - Kirakci, Kaplan - Lang, Kamil - Moussawi, M. A. - Sokolov, M. N. - Naumov, N. G. - Floquet, S. - Landy, D. - Haouas, M. - Brylev, K. A. - Mironov, Y.V. - Molard, Y. - Cordier, S. - Cadot, E.

Host-Guest Binding Hierarchy within Redox- and Luminescence-Responsive Supramolecular Self-Assembly Based on Chalcogenide Clusters and γ -Cyclodextrin.

Chemistry - A European Journal. Roč. 24, č. 51 (2018), s. 13467-13478. ISSN 0947-6539

R&D Projects: GA ČR(CZ) GA18-05076S

Institutional Support: RVO:61388980

Keywords: Cyclodextrin * Electrochemistry * Luminescence * Metal cluster complex * Supramolecular self-assembly

Subject RIV: CA - Inorganic Chemistry
Obor OECD: Inorganic and nuclear chemistry
Impact factor: 5.160, year: 2018

Abramov, P. A.

- Haouas, M.

- Cadot, E.

Permanent link: <http://hdl.handle.net/11104/0287093>

- [SCOPUS](#)
- [WOS](#)
- [PUBMED](#)
- [DOI](#)
- [Result - R&D](#)

0484216 - ÚACH 2019 RIV NL eng J - Journal Article

Jandová, V. - Pokorná, D. - Kupčík, Jaroslav - Bezdička, Petr - Křenek, T. - Netrvalová, M. - Cuřínová, P. - Pola, J.

Thermal reactions in mixtures of micron-sized silicon monoxide and titanium monoxide: redox paths overcoming passivation shells.

Research on Chemical Intermediates. Roč. 44, č. 1 (2018), s. 503-516. ISSN 0922-6168

Institutional Support: RVO:61388980

Keywords: Silicon monoxide * Titanium monoxide * High-temperature * Oxygen-transfer reactions * Titanium suboxides * Titanium silicide * Methylene blue depletion

Subject RIV: CA - Inorganic Chemistry
Obor OECD: Inorganic and nuclear chemistry
Impact factor: 2.064, year: 2018

Pola, J.

Permanent link: <http://hdl.handle.net/11104/0282019>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)
- [Result - R&D](#)

0499512 - FZÚ 2019 RIV US eng C - Proceedings Paper (International conf.)

Kadlec, Christelle - Němec, Hynek - Knížek, Karel - Hejtmánek, Jiří - Goian, Veronica - Buršík, Josef

Insulator-metal transition in PrYCaCo₃ thin films studied by terahertz spectroscopy.

2018 43rd International Conference on Infrared, Millimeter, and Terahertz Waves (IRMMW-THz). New York: IEEE, 2018, s. 1-2. International Conference on Infrared Millimeter and Terahertz Waves. ISBN 9781538638101. ISSN 2162-2027.

[International Conference on Infrared, Millimeter, and Terahertz Waves (IRMMW-THz) /43./. Nagoya (JP), 09.09.2018-14.09.2018]

R&D Projects: GA ČR GA17-04412S

Institutional Support: RVO:68378271 ; RVO:61388980

Keywords: rare-earth perovskite cobaltites * insulator-metal transition

Subject RIV: BM - Solid Matter Physics & Magnetism; CA - Inorganic Chemistry
Obor OECD: Condensed matter physics (including formerly solid state physics, supercond.); Inorganic and nuclear chemistry (UACH-T)

<https://ieeexplore.ieee.org/document/8510481>

Kadlec, Christelle

Permanent link: <http://hdl.handle.net/11104/0291705>

- [WOS](#)

- [DOI](#)
- [Result - R&D](#)

0498197 - FZÚ 2019 RIV GB eng J - Journal Article

Kamba, Stanislav - Borodavka, Fedir - Kadlec, Filip - Kadlec, Christelle - Chai, Y.S. - Zhai, K. - Buršík, Josef - Vít, Jakub

Vibrational spectra of multiferroics with Y- and Z- type hexaferrite structures.

Ferroelectrics. Roč. 532, č. 1 (2018), s. 208-220. ISSN 0015-0193

R&D Projects: GA MŠK EF16_019/0000760; GA ČR GA18-09265S

OP VVV - SOLID21(XE) CZ.02.1.01/0.0/0.0/16_019/0000760

Institutional Support: RVO:68378271 ; RVO:61388980

Keywords: multiferroics * phonons * hexaferrites * electromagnon * factor group analysis

Subject RIV: BM - Solid Matter Physics & Magnetism; CA - Inorganic Chemistry

Obor OECD: Condensed matter physics (including formerly solid state physics, supercond.); Inorganic and nuclear chemistry (UACH-T)

Impact factor: 0.697, year: 2018

Kamba, Stanislav

Permanent link: <http://hdl.handle.net/11104/0290594>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)
- [Result - R&D](#)

0489350 - ÚACH 2019 RIV NL eng J - Journal Article

Keppert, M. - Vejmelková, E. - Bezdička, Petr - Doleželová, M. - Čárhová, M. - Scheinherrová, L. - Pokorný, J. - Vyšvařil, M. - Rovnaníková, P. - Černý, R.

Red-clay ceramic powders as geopolymer precursors: Consideration of amorphous portion and CaO content.

Applied Clay Science. Roč. 161, SEP (2018), s. 82-89. ISSN 0169-1317

Institutional Support: RVO:61388980

Keywords: Amorphous content * Calcium oxide * Composition * Geopolymers * Red-clay ceramics

Subject RIV: CA - Inorganic Chemistry

Obor OECD: Inorganic and nuclear chemistry

Impact factor: 3.890, year: 2018

Černý, R.

Permanent link: <http://hdl.handle.net/11104/0283787>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)
- [Result - R&D](#)

0491206 - ÚACH 2019 RIV GB eng J - Journal Article

Kirakci, Kaplan - Zelenka, J. - Rumlová, M. - Martinčík, Jiří - Niki, Martin - Ruml, T. - Lang, Kamil

Octahedral molybdenum clusters as radiosensitizers for X-ray induced photodynamic therapy.

Journal of Materials Chemistry B. Roč. 6, č. 26 (2018), s. 4301-4307. ISSN 2050-750X

R&D Projects: GA ČR(CZ) GA18-05076S

Institutional Support: RVO:61388980 ; RVO:68378271

Keywords: cancer-treatment * metal-clusters * in-vivo * nanoparticles * luminescence * nanoprecipitation * radiotherapy

Subject RIV: CA - Inorganic Chemistry; CH - Nuclear & Quantum Chemistry

Obor OECD: Inorganic and nuclear chemistry

Impact factor: 5.047, year: 2018

Lang, Kamil

Permanent link: <http://hdl.handle.net/11104/0285248>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)
- [Result - R&D](#)

0494424 - ÚCHP 2019 RIV DE eng J - Journal Article

Klán, M. - Pokorná, Petra - Havlíček, D. - Vik, O. - Racek, M. - Plocek, Jiří - Hovorka, J.

New Comprehensive Approach for Airborne Asbestos Characterisation and Monitoring.

Environmental Science and Pollution Research. Roč. 25, č. 30 (2018), s. 30488-30496. ISSN 0944-1344

R&D Projects: GA ČR(CZ) GBP503/12/G147

Institutional Support: RVO:67985858 ; RVO:61388980

Keywords: actinolite asbestos * naturally occurring asbestos * DRUM sampler

Subject RIV: DI - Air Pollution & Quality

Obor OECD: Environmental sciences (social aspects to be 5.7); Inorganic and nuclear chemistry (UACH-T)

Impact factor: 2.914, year: 2018

Pokorná, Petra

Permanent link: <http://hdl.handle.net/11104/0288987>

- [SCOPUS](#)
- [WOS](#)
- [PUBMED](#)
- [DOI](#)
- [Result - R&D](#)
- [Inst. Repository](#)

0498199 - FZÚ 2019 RIV US eng J - Journal Article

Knížek, Karel - Pashchenko, Mariia - Levinský, Petr - Kaman, Ondřej - Houdková, Jana - Jiříček, Petr - Hejtmánek, Jiří - Soroka, Miroslav - Buršík, Josef

Spin Seebeck effect in ϵ -Fe₂O₃ thin films with high coercive field.

Journal of Applied Physics. Roč. 124, č. 21 (2018), s. 1-8, č. článku 213904. ISSN 0021-8979

R&D Projects: GA MŠK(CZ) LM2015088; GA ČR GA16-04340S; GA MŠK(CZ) LM2015073

Institutional Support: RVO:68378271 ; RVO:61388980

Keywords: spin coating * magnetic hysteresis * thin films * depth profiling techniques * thermoelectricity

Subject RIV: BM - Solid Matter Physics & Magnetism; CA - Inorganic Chemistry

Obor OECD: Condensed matter physics (including formerly solid state physics, supercond.); Inorganic and nuclear chemistry (UACH-T)

Impact factor: 2.328, year: 2018

Knížek, Karel

Permanent link: <http://hdl.handle.net/11104/0290597>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)
- [Result - R&D](#)

0490732 - ÚACH 2019 RIV NL eng J - Journal Article

Kolena, J. - Skuhrovcová, L. - Kocík, J. - Šafář, J. - Kupčík, Jaroslav

Catalyst for Selective Hydrogenolysis of Glycerol, Prepared from Hydrotalcite-Like Structures.

Topics in Catalysis. Roč. 61, 15-17 (2018), s. 1746-1756. ISSN 1022-5528

Institutional Support: RVO:61388980

Keywords: 1,2-Propanediol * Activation * Catalyst * Cu * Glycerol * Hydrogenolysis * Hydrotalcite

Subject RIV: CA - Inorganic Chemistry

Obor OECD: Inorganic and nuclear chemistry

Impact factor: 2.226, year: 2018

Kolena, J.

Permanent link: <http://hdl.handle.net/11104/0288319>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)
- [Result - R&D](#)
- [Inst. Repository](#)

0503695 - ÚACH 2020 RIV AT eng C - Proceedings Paper (International conf.)

Konvalinka, P. - Vejmelková, E. - Scheinherrová, L. - Doleželová, M. - Bezdička, Petr

Hygric properties of concrete casing for radioactive waste deposition.

International Multidisciplinary Scientific GeoConference SGEM. Vienna: STEF92 Technology, 2018, Roč. 18, č. 4.3 (2018), s. 3-10. ISSN 1314-2704.

[International Multidisciplinary Scientific Geoconference, SGEM 2018 /18./ Vienna (AT), 03.12.2018-06.12.2018]

R&D Projects: GA ČR(CZ) GA17-11635S

Institutional Support: RVO:61388980

Keywords: Basic physical properties * Concrete casing * Mechanical properties * Radioactive waste deposition * Water transport properties

Subject RIV: CA - Inorganic Chemistry

Obor OECD: Inorganic and nuclear chemistry

Permanent link: <http://hdl.handle.net/11104/0302672>

- [SCOPUS](#)
- [DOI](#)
- [Result - R&D](#)

0488521 - ÚACH 2019 RIV CH eng C - Proceedings Paper (International conf.)

Koťátková, J. - Čáchová, M. - Bezdička, Petr - Vejmelková, E. - Konvalinka, P. - Zemanová, L. - Černý, R.

Influence of supplementary cementitious materials on the properties of concrete for secondary protection barrier in radioactive waste repositories.

Key Engineering Materials. Vol. 760. Zurich: Trans Tech Publications, 2018, s. 96-101. ISSN 1662-9795.

[Special Concrete and Composites 2017 /14./ Líske (CZ), 10.10.2017-11.10.2017]

R&D Projects: GA ČR(CZ) GA17-11635S

Institutional Support: RVO:61388980

Keywords: Basic physical properties * Mechanical properties * Repository * Secondary protection barrier * Supplementary cementitious materials * Thermal properties

Subject RIV: CA - Inorganic Chemistry

Obor OECD: Inorganic and nuclear chemistry

Permanent link: <http://hdl.handle.net/11104/0283103>

- [SCOPUS](#)
- [DOI](#)
- [Result - R&D](#)

0486882 - ÚACH 2019 RIV GB eng J - Journal Article

Krbal, M. - Sopa, H. - Pohl, D. - Beneš, L. - Damm, C. - Rellinghaus, B. - Kupčík, Jaroslav - Bezdička, Petr - Šubrt, Jan - Macák, J. M.
Self-organized TiO₂ nanotubes grown on Ti substrates with different crystallographic preferential orientations: Local structure of TiO₂ nanotubes vs. photo-electrochemical response.

Electrochimica acta. Roč. 264, FEB (2018), s. 393-399. ISSN 0013-4686

Institutional Support: RVO:61388980

Keywords: Anatase * Anodization * Photo-current * Stoichiometry * TiO nanotubes 2

Subject RIV: CA - Inorganic Chemistry

Obor OECD: Inorganic and nuclear chemistry

Impact factor: 5.383, year: 2018

Macák, J. M.

Permanent link: <http://hdl.handle.net/11104/0282014>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)
- [Result - R&D](#)

0503776 - ÚACH 2020 RIV CZ eng C - Proceedings Paper (International conf.)

Lokočová, K. - Vaňková, E. - Šícha, Václav - Masák, J.

Combination of cobalt bis(dicarbollide) amino derivative and antibiotic effect on growth of staphylococcus epidermidis.

International Conference on Chemical Technology. In: *Proceedings of the 6th International Conference on Chemical Technology*. Prague: Czech Society of Industrial Chemistry, 2018 - (Veselý, M.; Hrdlička, Z.; Hanika, J.; Lubojacký, J.), s. 91-94. ISBN 978-80-86238-77-7. ISSN 2336-8128.

[International Conference on Chemical Technology /6./, Mikulov (CZ), 16.04.2018-18.04.2018]

Institutional Support: RVO:61388980

Keywords: cobalt bis(dicarbollide) * staphylococcus genus

Subject RIV: CA - Inorganic Chemistry

Obor OECD: Inorganic and nuclear chemistry

<https://www.icct.cz/AngiologyKlon-ICCT/media/system/2018/ICCT-2018-Proceedings.pdf>

Lokočová, K.

Permanent link: <http://hdl.handle.net/11104/0295557>

- [WOS](#)
- [Result - R&D](#)
- [Inst. Repository](#)

0492784 - ÚACH 2019 RIV SG eng M - Monograph chapter

Londesborough, Michael Geoffrey Stephen - Dolanský, Jiří - Braborec, Jakub - Cerdán, L.

Interaction of Anti-B18H₂₂ with Light.

Handbook of Boron Science With Applications in Organometallics, Catalysis, Materials and Medicine. Singapore: World Scientific, 2018 - (Hosmane, N.; Eagling, R.), s. 115-136. ISBN 978-1-78634-441-0

Institutional Support: RVO:61388980

Keywords: anti-B18H₂₂ * fluorescence * laser * boranes

Subject RIV: CA - Inorganic Chemistry

Obor OECD: Inorganic and nuclear chemistry

Londesborough, Michael Geoffrey Stephen

Permanent link: <http://hdl.handle.net/11104/0286162>

- [SCOPUS](#)
- [DOI](#)
- [Result - R&D](#)

0486863 - ÚACH 2019 RIV GB eng J - Journal Article

Londesborough, Michael Geoffrey Stephen - Dolanský, Jiří - Jelínek, Tomáš - Kennedy, John David - Císařová, I. - Kennedy, R. G. - Roca-Sanjuan, D. - Frances-Monerris, A. - Lang, Kamil - Clegg, W.

Substitution of the laser borane anti-B18H₂₂ with pyridine: a structural and photophysical study of some unusually structured acropolyhedral boron hydrides.

Dalton Transactions. Roč. 47, č. 5 (2018), s. 1709-1725. ISSN 1477-9226

R&D Projects: GA ČR(CZ) GA18-20286S

Institutional Support: RVO:61388980

Keywords: containing cluster chemistry * nuclear-magnetic-resonance * 2nd-order perturbation-theory * self-consistent-field * o-carborane

Subject RIV: CA - Inorganic Chemistry

Obor OECD: Inorganic and nuclear chemistry

Impact factor: 4.052, year: 2018

Londesborough, Michael Geoffrey Stephen

Permanent link: <http://hdl.handle.net/11104/0282016>

- [SCOPUS](#)
- [WOS](#)
- [PUBMED](#)
- [DOI](#)
- [Result - R&D](#)

0492584 - GLÚ 2019 RIV DE eng J - Journal Article

Majerová, L. - Bábek, O. - Navrátil, Tomáš - Nováková, Tereza - Štojdl, J. - Elznicová, J. - Hron, K. - Matys Grygar, Tomáš

Dam reservoirs as an efficient trap for historical pollution: the passage of Hg and Pb through the Ohře River, Czech Republic.

Environmental Earth Sciences. Roč. 77, August 2018 (2018), č. článku 574. ISSN 1866-6280

Institutional Support: RVO:67985831 ; RVO:61388980

Keywords: dam reservoirs * data evaluation * fluvial transport * secondary pollution

Subject RIV: DD - Geochemistry; DD - Geochemistry

Obor OECD: Environmental sciences (social aspects to be 5.7); Environmental sciences (social aspects to be 5.7) (UACH-T)

Impact factor: 1.871, year: 2018

Matys Grygar, Tomáš

Permanent link: <http://hdl.handle.net/11104/0286055>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)
- [Result - R&D](#)
- [Inst. Repository](#)

0494119 - ÚACH 2019 RIV GB eng J - Journal Article

Matys Grygar, Tomáš - Hošek, Michal - Pacina, J. - Štojdl, J. - Bábek, O. - Sedláček, J. - Hron, K. - Talská, R. - Kříženecká, S. - Tolaszová, J.

Changes in the geochemistry of fluvial sediments after dam construction (the Chrudimka River, the Czech Republic).

Applied Geochemistry. Roč. 98, NOV (2018), s. 94-108. ISSN 0883-2927

Institutional Support: RVO:61388980

Keywords: Dam reservoirs * Geochemical tools * Grain size effects * Pollution chemostratigraphy * Sediment cores

Subject RIV: DD - Geochemistry

Obor OECD: Environmental sciences (social aspects to be 5.7)

Impact factor: 2.894, year: 2018

Matys Grygar, Tomáš

Permanent link: <http://hdl.handle.net/11104/0288317>

- [SCOPUS](#)
- [WOS](#)
- [DOI](#)
- [Result - R&D](#)

0492890 - ÚMCH 2019 RIV GB eng J - Journal Article

Melánová, Klára - Holub, Josef - Hynek, Jan - Fanfrlík, Jindřich - Beneš, L. - Kutálek, P. - Krejčová, A. - Hnyk, Drahomír - Zima, Vítězslav
Outerly functionalized and non-functionalized boron clusters intercalated into layered hydroxides with different modes of binding: materials for superacid storage.

Dalton Transactions. Roč. 47, č. 33 (2018), s. 11669-11679. ISSN 1477-9226

R&D Projects: GA ČR(CZ) GA17-10639S; GA ČR(CZ) GA17-08045S

Institutional Support: RVO:61389013 ; RVO:61388980 ; RVO:61388963

Keywords: boranes * carboranes * intercalation

Subject RIV: CD - Macromolecular Chemistry; CA - Inorganic Chemistry; CF - Physical & Theoretical Chemistry

Obor OECD: Polymer science; Inorganic and nuclear chemistry (UACH-T); Physical chemistry (UOCHB-X)

Impact factor: 4.052, year: 2018

Hnyk, Drahomír

- Zima, Vítězslav

Permanent link: <http://hdl.handle.net/11104/0286351>

- [SCOPUS](#)
- [WOS](#)
- [PUBMED](#)

- [DOI](#)
- [Result - R&D](#)
- [Inst. Repository](#)

0489616 - ÚOCHB 2019 RIV GB eng J - Journal Article

Melichar, Petr - Hnyk, Drahomír - Fanfrlík, Jindřich

A systematic examination of classical and multi-center bonding in heteroborane clusters.

Physical Chemistry Chemical Physics. Roč. 20, č. 7 (2018), s. 4666-4675. ISSN 1463-9076

R&D Projects: GA ČR(CZ) GA17-080455

Institutional Support: RVO:61388963 ; RVO:61388980

Keywords: quantum chemical calculations * phase electron diffraction * ab initio calculations

Subject RIV: CF - Physical & Theoretical Chemistry; CA - Inorganic Chemistry

Obor OECD: Physical chemistry; Inorganic and nuclear chemistry (UACH-T)

Impact factor: 3.567, year: 2018

<http://pubs.rsc.org/en/content/articlehtml/2018/cp/c7cp07422k>

Hnyk, Drahomír

- Fanfrlík, Jindřich

Permanent link: <http://hdl.handle.net/11104/0283999>

- [SCOPUS](#)
- [WOS](#)
- [PUBMED](#)
- [DOI](#)
- [Result - R&D](#)

0496252 - ÚCHP 2019 RIV CZ eng C - Proceedings Paper (International conf.)

Moravec, Pavel - Schwarz, Jaroslav - Vodička, Petr - Kupčík, Jaroslav - Švehla, Jaroslav

MOCVD Iron Oxide Nanoparticle Generation not Only for Follow-Up Inhalation Exposure Experiments.

Sborník XIX. výroční konference České aerosolové společnosti, pp. 44-47. Praha: Česká Aerosolová společnost, 2018 - (Pokorná, P.), s. 80-83. ISBN 978-80-270-4780-2.

[Výroční konference České aerosolové společnosti /19./, Piešťany (SK), 25.10.2018-26.10.2018]

R&D Projects: GA ČR(CZ) GBP503/12/G147

Institutional Support: RVO:67985858 ; RVO:61388980

Keywords: exposure studies * iron oxide nanoparticle generation * nanoparticle characterization

Subject RIV: DI - Air Pollution & Quality; CA - Inorganic Chemistry

Obor OECD: Environmental sciences (social aspects to be 5.7); Inorganic and nuclear chemistry (UACH-T)

<http://hdl.handle.net/11104/0289067>

Permanent link: <http://hdl.handle.net/11104/0289067>

- [Result - R&D](#)
- [Inst. Repository](#)

0496483 - ÚACH 2019 RIV NL eng J - Journal Article

Motlochová, Monika - Slovák, V. - Plížingrová, Eva - Klementová, Mariana - Bezdička, Petr - Šubrt, Jan

Thermal decomposition study of nanostructured amorphous lithium, sodium and potassium metatitanates.

Thermochimica Acta. Roč. 670, DEC (2018), s. 148-154. ISSN 0040-6031

R&D Projects: GA TA ČR(CZ) TJ01000154; GA MŠK(CZ) LM2015073

Institutional Support: RVO:61388980

Keywords: Evolved gas analysis * Lithium, sodium and potassium titanates * Metatitanates * Rod-shaped materials * Thermal analysis

Subject RIV: CA - Inorganic Chemistry

Obor OECD: Inorganic and nuclear chemistry

Impact factor: 2.251, year: 2018

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