

Fakulta chemickej a potravinárskej technológie

Slovenská technická univerzita v Bratislave

Personálne oddelenie

Radlinského 9

812 37 Bratislava

Vec: Žiadosť o účasť vo výberovom konaní na funkčné miesto docent v študijnom odbore chémia na Ústave anorganickej chémie, technológie a materiálov na Oddelení anorganických materiálov.

Na základe vyhláseného výberového konania v zmysle § 5 ods 3 Zákona č. 552 /2003 Z.z. o výkone práce vo verejnom záujme v znení neskorších predpisov, uverejneného na stránke Ministerstva školstva SR, na webovej stránke STU a vývesných tabuliach Fakulty chemickej a potravinárskej technológie STU zo dňa 16.11.2023 (č. 14817/2023), sa týmto prihlasujem do výberového konania na obsadenie funkčného miesta docent, pre študijný odbor chémia, Ústavu anorganickej chémie, technológie a materiálov na Oddelení anorganických materiálov FCHPT STU v Bratislave, s nástupom od 1.2.2024.

K žiadosti prikladám:

- životopis vo forme Europass
- vyplnenú prílohu Povinné kritériá pre habilitačné a inauguračné konanie na FCHPT STU - tab. (1)
- sumárny prehľad o pedagogickej činnosti a vedeckovýskumnej činnosti
- výpis z registra trestov

v Bratislave dňa 12.12.2023



podpis

Súčasne týmto v súlade so Zákonom č. 18/2018 o ochrane osobných údajov a o zmene a doplnení niektorých zákonov, dávam súhlas so spracovaním a uchovaním mojich osobných údajov na Fakulte chemickej a potravinárskej technológie, Slovenskej technickej univerzity v Bratislave, na účely vedenia v databáze uchádzačov o zamestnanie.

Minimálne kritériá na získanie titulu docent a titulu profesor
na Slovenskej technickej univerzite v Bratislave

Odbor habilitačného a inauguračného konania: **Chemické technológie**

Schválené vo VR STU 22. 02. 2021

Minimálne povinné požiadavky	Požadované minimálne hodnoty		Skutočné
	Prof.	Doc.	
I. Vzdelávacia činnosť a tvorba študijných materiálov Vzdelávacia činnosť v rozsahu: Vysokoškolská učebnica alebo učebný text, skriptá (uvádza sa autorský podiel uchádzača): Záverečné práce obhájené pod vedením uchádzača:	3 roky po doc. 1 (3AH) 2x (3AH) 10	3 roky po PhD. - 1 (3AH) 5	10 rokov po doc. 1(3AH) 1(7AH) 14
II. Vedeckovýskumná alebo tvorivá umelecká aktivita^{*)} Výstupy v kategóriách A+, A, A- a B z toho výstupy v kategóriách A+ a A:	50 (8) 15 (4)	15 (5) 6 (2)	62 (17) 36 (11)
III: Ohlasy na publikačnú alebo umeleckú aktivitu^{*)} Ohlasy spolu z toho: Ohlasy registrované vo WoS alebo SCOPUS:	90 (45) 70 (35)	30 (15) 25 (12)	1078 (69) 1078 (69)
IV. Vedecká škola Výchova doktorandov: (skončený/po dizertačnej skúške): Účastník/vedúci výskumného alebo umeleckého projektu:	2 2/0 6/1	- - 3/0	10 6/1 20/9
V. Doplnujúce kritériá^{**)}			

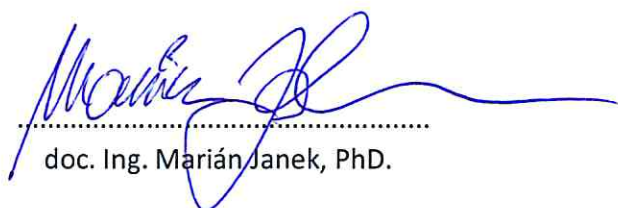
^{*)} V zátvorke uviesť počty za posledných 5 rokov.

^{**)} Doplnujúce kritériá určia vedecké rady fakúlt ohľadom na špecifiká odboru HaI konania.

Kategorizácia výstupov:

A+	publikácia v časopise Q1, medzinárodný patent
A	publikácia v časopise Q2, monografia v MRV
A-	publikácia v časopise WoS alebo SCOPUS, národný patent
B	ostatné publikácie vo WoS alebo SCOPUS, ostatné recenzované publikácie v časopisoch

Akceptuje sa zaradenie časopisu do kvartilov podľa WoS alebo SCOPUS.


doc. Ing. Marián Janek, PhD.

SLOVENSKÁ TECHNICKÁ UNIVERZITA V BRATISLAVE
Fakulta chemickej a potravinárskej technológie

SUMÁRNÝ PREHĽAD PEDAGOGICKEJ A VEDECKOVÝSKUMNEJ ČINNOSTI
K ŽIADOSTI NA VÝBEROVÉ KONANIE ZA MIESTO DOCENTA ALEBO PROFESORA

v odbore chémia

Meno a priezvisko:	Marián Janek
Narodený (dátum a miesto):	18.3.1966, Trstená
Akademické a vedecké hodnosti (titul a rok získania):	1997, PhD.; 2013, doc.
Funkčné zaradenie:	docent, vedúci oddelenia
Pracovisko:	Oddelenie anorganických materiálov
Priebeh zamestnania:	1991-2003 ÚACH SAV, Bratislava 1999-2000 Ústav anorganickej chémie Univ. Kiel 2001-2005 Forschungszentrum Karlsruhe GmbH 2006-dnes Prírodovedecká fakulta UK, Bratislava 2008-2012 Technologický Inštitút SAV, Bratislava 2014-dnes FCHPT STU, Bratislava

1) Pedagogická činnosť

1.1 Prednášky

FCHPT STU Úvod do moderných anorganických materiálov 2017–2023, zs 2

FCHPT STU Základy chémie II 2018–2023, ls 2

FCHPT STU Bioanorganické materiály. 2020–2023, ls 2

PriF UK Fyzikálna chémia v Anglickom jazyku, 2018–2023, zs 5

PriF UK Fyzikálna chémia pre geológov/medicínskych biológov, 2012–2021, ls 2

PriF UK Koloidná chémia, 2011–2023, zs 2

1.2 Semináre a laboratórne cvičenia

FCHPT STU Laboratórium chemických technológií III 2015–2023, ls 6

FCHPT STU Laboratórne cvičenia z Anorganickej chémie, 2014–2016, zs 5

FCHPT STU Výpočtový seminár z Anorganickej chémie, 2014-2016, zs 2

FCHPT STU Proseminár z chémie, 2014–2015, zs 2

KFaTCh PriF UK Pokročilé laboratórne cvičenia z Fyzikálnej chémie II, 2006–2018, ls 6

KFaTCh PriF UK Pokročilé laboratórne cvičenia z Fyzikálnej chémie I, 2018–2021, zs 6

KFaTCh PriF UK Metodika experimentu vo Fyzikálnej chémii, 2021–2023, zs 6

KFaTCh PriF UK Výberový seminár z Fyzikálnej chémie, 2006–2015, zs 2

KFaTCh PriF UK Výpočtový seminár z Fyzikálnej chémie, 2006–2022, zs 2

SvF STU KMI Seminár chémie pre stavebných inžinierov, 1995–1996, zs 2

1.3 Vedenie doktorandov resp. aspirantov:

– počet vyškolených: 6

– počet súčasne školených: 3 (+1 v prerušení štúdia)

1.4 Vedenie záverečných diplomových prác - počet: 8

- 1.5 Vedenie záverečných bakalárskych prác - **počet: 6**
1.6 Vedenie študentov v rámci ŠVOČ (počet, príp. umiestnenie vo fakultnom, resp. bývalom celoštátnom kole): 2x, zakaždým umiestnenie na 3. mieste v rámci odboru.
1.7 VŠ učebnice (kategória **ACA, ACB, ACC** a **ACD**) - **počet: 2**
1.8 Skriptá (kategória **BCI** a **BCK**) - **počet: 1**

2) Prehľad vedeckovýskumnej činnosti v členení:

(Zoznam publikačnej činnosti sa spracováva podľa Vyhlášky č. 456/2012 MŠVVaŠ o centrálnom registri evidencie publikačnej činnosti a centrálnom registri evidencie umeleckej činnosti – pri všetkých kolektívnych prácach uviesť podiel uchádzača v percentách.)

- 2.1 Pôvodné vedecké práce v zahraničných a domácich karentovaných (CC) časopisoch (kategória **ADC** a **ADD**) - **počet:44**
z toho ako 1. autor/posledný autor - **počet:13/11**
- 2.2 Pôvodné vedecké práce v zahraničných a domácich časopisoch registrovaných v databázach Web of Science alebo SCOPUS (kategória **ADM** a **ADN**) - **počet:1**
- 2.3 Pôvodné vedecké práce v ostatných zahraničných a domácich časopisoch (kategória **ADE** a **ADF**) - **počet:8**
- 2.4 Pôvodné vedecké práce v zahraničných a domácich recenzovaných **nekonferenčných** zborníkoch, monografiách (kategória **AEC** a **AED**) - **počet:3**
- 2.5 Publikované **pozvané** príspevky v zborníkoch zo zahraničných a domácich vedeckých konferencií (**v zozname uvádzať aj ISBN**) (kategória **AFA** a **AFB**):
vo svetovom jazyku^{x/} - **počet:2** z toho s ISBN - **počet:2**
v národnom jazyku - **počet:0** z toho s ISBN - **počet:0**
- 2.6 Publikované príspevky v zborníkoch zo zahraničných a domácich vedeckých konferencií (**v zozname uvádzať aj ISBN**) (kategória **AFC** a **AFD**):
vo svetovom jazyku^{x/} - **počet:18** z toho s ISBN - **počet:18**
v národnom jazyku - **počet:10** z toho s ISBN - **počet:10**
- 2.7 Patentové prihlášky, prihlášky úžitkových vzorov, prihlášky ochranných známok a pod. (kategória **AGJ**) - **počet:4**
- 2.8 Abstrakty vedeckých prác v zahraničných a domácich karentovaných časopisoch a časopisoch registrovaných v databázach Web of Science alebo SCOPUS (kategória **AEG**, **AEH** a **AEM**, **AEN**) - **počet:-**
- 2.9 Abstrakty pozvaných a ostatných príspevkov zo zahraničných a domácich vedeckých konferencií, ktoré vyšli v konferenčnom zborníku (**v zozname uvádzať aj ISBN**) (kategória **AFE**, **AFF** a **AFG**, **AFH**) - **počet:3**
vo svetovom jazyku^{x/} - **počet:77** z toho s ISBN - **počet:32**
v národnom jazyku - **počet:16** z toho s ISBN - **počet:13**
- 2.10 Postery zo zahraničných a domácich vedeckých konferencií (kategória **AFK** a **AFL**) - **počet:**
z toho: – zahraničných^{xxx/} 2 **počet:** – domácich 3 **počet:**
- 2.11 Monografie a kapitoly v monografiách^{xx/} (kategória **AAA**, **AAB**, **ABA**, **ABB**, **ABC**, **ABD**):
vo svetovom jazyku^{x/} 1 **počet AH:** -
v národnom jazyku - **počet AH:** -
- 2.12 Prednášky na zahraničných vedeckých podujatiach^{xxx} (**v zozname vyznačte osobne prednesené**) - **počet: 26**
z toho: - osobne prednesené pozvané prednášky - **počet: 2**
- osobne prednesené prihlásené prednášky - **počet: 24**

2.13 Prednášky na domácich vedeckých podujatiach (v zozname vyznačte osobne prednesené) – počet: 13

z toho osobne prednesené - počet: 13

2.14 Získané finančné prostriedky v € (uvádza iba zodpovedný riešiteľ):

Granty:

- VEGA: ZR 4x ~130 000 €
- APVV: ZR 2x ~309 000 €
- ŠPVoV: ASFEU ~6 500 000 €
- Iné (napr. aplikovaný výskum MŠVVaŠ SR, finančný príspevok MŠVVaŠ SR na medzinárodné projekty a pod.):

Mimorozpočtové zdroje:

- medzinárodné projekty: NATO CLG 6000 €
- ZoD: 15 000 €

2.15 Citácie (počty):

- SCI: cca 1078
- knižné: cca 70
- iné: -

(Zoznam citácií sa spracováva podľa Vyhlášky č. 456/2012 MŠVVaŠ o centrálnom registri evidencie publikačnej činnosti a centrálnom registri evidencie umeleckej činnosti.)

Dátum: 12.12.2023



podpis uchádzača

xxx/ ČR sa považuje za zahraničie od 1.1.1993

Názov a adresa zamestnávateľa

Druh práce alebo odvetvie
hospodárstva

Vzdelávanie a príprava

Od - do

Názov získanej kvalifikácie

Názov a typ organizácie
poskytujúcej vzdelávanie a prípravu

Od - do

Názov získanej kvalifikácie

Názov a typ organizácie
poskytujúcej vzdelávanie a prípravu

Osobná spôsobilosť

Materinský jazyk

Ďalšie jazyky

Sebahodnotenie

Európska úroveň (*)

Nemecký

Anglický

Český

Ruský

Poľský

Sociálne zručnosti

Organizačné zručnosti

Počítačové zručnosti

Ďalšie zručnosti

Vodičský preukaz

Doplňujúce informácie

Prílohy

Strana 2 - Životopis

Janek Marián

publikácia v odborných časopisoch, patentovanie, vypracovávanie záverečných správ projektov.
Forschungszentrum Karlsruhe GmbH, In der Helmholtz-Gemeinschaft, D-76021 Karlsruhe,
Nemecko, <http://www.fzk.de>

Základný a aplikovaný výskum.

09.1992-06.1997

Philosophiae doctor = PhD. Promócia po verejnej obhajobe dizertácie s názvom: „Autotransformácia H-foriem smektitov vo vodných disperziách“. Rigorózna skúška s výborným prospechom: Fyzikálna a anorganická chémia, štatistika, jazyková príprava - Anglický a Nemecký jazyk.

Ústav anorganickej chémie, Slovenskej akadémie vied, Dúbravská cesta 9, SK-845 36 Bratislava,
Slovenská technická univerzita v Bratislave, Chemickotechnologická fakulta, Radlinského 9,
SK-81237 Bratislava a Ústav anorganickej chémie Univerzity v Kiel, Nemecko.

08.1985-06.1990

Chemický inžinier technológie anorganických výrob = Dipl.-Ing. Po obhájení diplomovej práce s názvom: „Termodynamická analýza kondenzovaného systému Li^+ , Na^+ // F^- , SO_4^{2-} , AlF_6^{3-} “.

Slovenská technická univerzita v Bratislave, Chemickotechnologická fakulta, Radlinského 9,
SK-812 37 Bratislava

Slovenský

Porozumenie				Hovorenie				Písanie	
Počúvanie		Čítanie		Ústna interakcia		Samostatný ústny prejav			
C1	Skúsený používateľ	C2	Skúsený používateľ	C2	Skúsený používateľ	C1	Skúsený používateľ	B2	Samostatný používateľ
C1	Skúsený používateľ	C2	Skúsený používateľ	C1	Skúsený používateľ	C1	Skúsený používateľ	B2	Samostatný používateľ
C2	Skúsený používateľ	C2	Skúsený používateľ	C1	Skúsený používateľ	C1	Skúsený používateľ	C1	Skúsený používateľ
B2	Samostatný používateľ	B1	Samostatný používateľ	A1	Samostatný používateľ	A1	Samostatný používateľ	A2	Používateľ základného jazyka
B2	Samostatný používateľ	A2	Používateľ základného jazyka	A1	Samostatný používateľ	A2	Používateľ základného jazyka	A1	Používateľ základného jazyka

(*) Úroveň podľa spoločného európskeho referenčného rámca (CEF)

Priateľský a otvorený, usporiadaná osobnosť - skúsenosti z práce v multikulturálnom prostredí nadobudnuté počas práce v zahraničí.

Skúsenosti z managementu a koordinácie projektov, organizácia tímu nadobudnuté v rámci predošlých zamestnaní a školení zamestnávateľa.

Vynikajúce znalosti v oblasti počítačových technológií a v aplikačných programoch typu Office (Word, Excel, Outlook, PowerPoint) ako aj grafických aplikáciách pre prezentačné účely Origin, Corel Draw atď.

Obsiahle skúsenosti vo výskume tuhej fázy, dejov na povrchoch a rozhraniach hlavne vrstevnatých silikátov a príbuzných oxo-hydroxidov. Pracovné zameranie na fyzikálnu, koloidnú a anorganickú chémiu. Skúsený vo využívaní viacerých výskumných metód napr.: chemické analýzy, štruktúrne modifikácie, koloidné charakteristiky a veľkosti častíc, povrchy tuhej fázy a jej acidobázické vlastnosti, mikroskopia atď. Štatistické spracovanie dát, programovanie vo Visual Basic-u a MatLab-e, Moderné technológie tvarovania materiálov známe ako aditívna výroba - 3D tlač..

EU (D) - skupiny B, ML

Základná vojenská služba: 08.1990-08.1991; Rodinný stav: ženatý; Záujmy - počítačové a komunikačné technológie, aktivity s rodinou a deťmi, plávanie, cyklistika, chórový spev.

Ďalšie doklady ako certifikáty absolvovaných školení, pracovné vysvedčenia a referencie na požiadanie.

Europass- Životopis



Osobné údaje

Priezvisko / Meno

Súčasná adresa

E-mail

Štátna príslušnosť

Dátum narodenia

Janek Marián

Mánesovo námestie 2, SK-851 01 Bratislava, Slovenská Republika

marian.janek.sk@gmail.com

Mobil: +421 902 430472

Slovenská republika

18.03.1966

Odborná prax

Od - do

Zamestnanie alebo pracovné
zaradenie

Hlavné činnosti a zodpovednosť

Názov a adresa zamestnávateľa

Druh práce alebo odvetvie
hospodárstva

Od - do

Zamestnanie alebo pracovné
zaradenie

Hlavné činnosti a zodpovednosť

Názov a adresa zamestnávateľa

Druh práce alebo odvetvie
hospodárstva

Od - do

Zamestnanie alebo pracovné
zaradenie

Hlavné činnosti a zodpovednosť

Názov a adresa zamestnávateľa

Druh práce alebo odvetvie
hospodárstva

Od - do

Zamestnanie alebo pracovné
zaradenie

Hlavné činnosti a zodpovednosť

02.2014 – dnes

Vedúci oddelenia anorganických materiálov
docent Ústavu anorganickej chémie, technológie a materiálov.

Vedenie oddelenia a pracovného tímu v oblasti výskumu materiálov keramiky, skla a cementu. 3D
tlač a optické vlastnosti materiálov. Príprava, vedenie, koordinácia a administrácia projektov.
Prednášková činnosť a príprava študentov. Spolupráca s domácimi a zahraničnými partnermi.

Fakulta Chemickej a Potravinárskej Technológie, STU Radlinského 9, SK-812 37 Bratislava
www.fchpt.stuba.sk

Vysokoškolský pedagóg a výskumný pracovník.

03. 2006 – dnes

Výskumný a vývojový pracovník

Koloidno-chemické a hydrotermálne syntézy nanočastíc, anorganicko-organické hybridné materiály,
využitie nových spektroskopických metód ako Terahertzovej spektroskopie v časovej doméne na
charakterizáciu pripravovaných materiálov.

Univerzita Komenského, Prírodovedecká fakulta, Mlynská dolina CH-1, SK-842 15 Bratislava
www.fns.uniba.sk

Výskumný pracovník vysokej školy.

od 01.2008 – 03.2012

Riaditeľ inštitútu

Vybudovanie a vedenie inštitútu v zmysle platnej legislatívy, zavedenie systému pre komercializáciu
výsledkov, technologický transfer, ochrana duševného vlastníctva a identifikácia inovácií. Príprava a
riadenie projektov EÚ v oblasti materiálových vied SAV.

Technologický inštitút, Slovenská Akadémia Vied v Bratislave
www.sav.sk

Vedúci pracovník, štatutárny zástupca inštitútu.

04. 2001-09.2005

Vedúci skupiny pre vývoj aplikácií a priemyselného využitia hlinítokremičitanov.

Vývoj nových organicko-anorganických materiálov a nanokompozitov. Zodpovedný za navrhovanie
a realizáciu projektov v spolupráci s priemyselnými partnermi, Vyhodnocovanie výsledkov a ich

publikácia v odborných časopisoch, patentovanie, vypracovávanie záverečných správ projektov. Nemecko, <http://www.fzk.de>

Základný a aplikovaný výskum.

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Ústav anorganickej chémie, Slovenskej akadémie vied, Dúbravská cesta 9, SK-845 36 Bratislava, Slovenská technická univerzita v Bratislave, Chemickotechnologická fakulta, Radlinského 9, SK-81237 Bratislava a Ústav anorganickej chémie Univerzity v Kiel, Nemecko.

08.1985-06.1990

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Slovenský

Písanie	Porozumenie		Hovorenie		Písanie
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C1	Skúsený používateľ	C2	Skúsený používateľ	C1	Samostatný používateľ
C2	Skúsený používateľ	C2	Skúsený používateľ	C1	Skúsený používateľ
C2	Skúsený používateľ	C2	Skúsený používateľ	C1	Skúsený používateľ
B2	Samostatný používateľ	A2	Samostatný používateľ	A1	Používateľ základného jazyka
B2	Samostatný používateľ	A2	Samostatný používateľ	A1	Používateľ základného jazyka

(*) Úroveň podľa spoločného európskeho referenčného rámca (CEFR)

Príateľský a otvorený, usporiadaná osobnosť - skúsenosti z práce v multikultúrnom prostredí nadobudnuté počas práce v zahraničí.

Skúsenosti z managementu a koordinácie projektov, organizačná tímu nadobudnuté v rámci predošlých zamestnaní a školení zamestnávateľa.

Vynikajúce znalosti v oblasti počítačových technológií a v aplikáciách programoch typu Office (Word, Excel, Outlook, PowerPoint) ako aj grafických aplikáciách pre prezentáciu účely Origin, Corel Draw atď.

Obsiahle skúsenosti vo výskume tuhej fázy, dejov na povrchoch a rozhraniach hlavne vrstevnatých silikátov a príbuzných oxo-hydroxidov. Pracovne zameranie na fyzikálnu, koloidnú a anorganickú chémiu. Skúsený vo využívaní viacerých výskumných metód napr.: chemické analýzy, štruktúrne modifikácie, koloidné charakteristiky a veľkosti častíc, povrchy tuhej fázy a jej acidobázické vlastnosti, mikroskopia atď. Štatistické spracovanie dát, programovanie vo Visual Basic-u a Matlab-e, Moderné technológie tvarovania materiálov známe ako aditívna výroba - 3D tlač..

EU (D) - skupiny B, M1

Základná vojenská služba: 08.1990-08.1991; Rodinný stav: ženatý; Záujmy - počítačové a komunikačné technológie, aktivity s rodinou a deťmi, plávanie, cyklistika, choroový spev.

Ďalšie doklady ako certifikáty absolvovaných školení, pracovné vysvedčenia a referencie na požiadanie.

doc. Ing. Marián Janek, PhD.

Oddelenie anorganických materiálov, ÚAChT M FCHPT STU

PREHLAD PUBLIKAČNEJ ČINNOSTI K VÝBEROVÉMU KONANIU

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ACD2 Janek M., Bioanorganické materiály. In: Ondrejkočivová, I., a kol. Prírodné vedy pre farmaceutické a medicínske aplikácie. Fakulta chemickej a potravinárskej technológie Slovenskej technickej univerzity v Bratislave, 2020, ISBN 978-80-8208-043-1, 185s. AP100% (B)

ABC3 Žitňan M., Bďžoch J., Bugár I., Szócs V., Pálszegi T., Janek M., Chorvát D., Velit D. (2006) Fluorescence Dynamics of Coumarin on Montmorillonite Structure, *Femtochemistry and Femtobiology*, Elsevier, 2006, p. 420-423. ISBN 978-044452821-6 AP10% (A+)

2. Článok v časopise

ADC Vedecké práce v zahraničných karentovaných časopisoch (WOS)

ADC1: Komadel, P., Madejová, J., Janek, M., Gates, W. P., Kirkpatrick, R. J. and Stueki, J. W. (1996): Dissolutions of hectorite in inorganic acids *Clays and Clay Minerals* 44, 228-236. (JCR od 1997 = 1.206, Q2 od 2001) AP15 % (A)

ADC2: Janek, M., Komadel, P. and Lagaly, G. (1997): Effect of autotransformation on the layer charge of smectites determined by alkylammonium method *Clay Minerals* 32, 623-632. (JCR 1997 = 0.640, Q4 od 2011) AP50 % (A-)

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ADC4: Madejová, J., Bujdák, J., Janek, M. and Komadel, P. (1998): Comparative FT-IR study of the structural modifications during acid treatment of dioctahedral smectites and hectorite. *Spectrochimica Acta A* 54, 1397-1406. DOI:10.1016/S1386-1425(98)00040-7 (JCR 1998 = 0.694, Q4) AP15 % (A-)

ADC5: Bujdák, J., Janek, M., Madejová, J., Komadel, P. (1998): Influence of the layer charge of smectites on the interaction with methylene blue. *Journal of Chemical Society, Faraday Transaction* 94, 3487-3492. (JCR od 2000 = 1.653, Q2 od 2000) AP30 % (A)

ADC6: Janek, M. and Smrčok, L. (1999): Application of an internal standard technique by transmission X-ray diffraction to assess layer charge of a montmorillonite by using

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ADC7: Bujdák, J., Janek, M., Madejová, J., Komadel, P. (2001): The effect of the temperature and smectite composition on the layer charge reduction: A methylene blue interaction study. *Clays and Clay Minerals* 49, 244-254. (JCR 2001 = 1.096, Q2 od 2001) AP20 % (A)

ADC8: Janek, M., and Lagaly, G. (2001): Proton saturation and rheological properties of smectite dispersions. *Applied Clay Science* 19, 121-130. (JCR 2001 = 2.095, Q1 od 2011) AP50 % (A+)

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ADC12: Ji, Y.-Q., Black, L., Weidler, P.G. and Janek, M. (2004): Preparation of Nanostructured Materials by Heterocoagulation - Interaction of Montmorillonite with Synthetic Hematite Particles. *Langmuir*, 20, 9796-9806. (JCR 2004 = 3.295, Q1) AP40 % (A+)

ADC13: Zemanová, M., Link, G., Takayama, S., Nüesch, R. and Janek, M. (2006): Modification of layer charge in smectites by microwaves. *Applied Clay Science* 32, 271-282. (JCR 2006 = 1.652, Q1 od 2011) AP30 % (A+)

ADC14: Ji, Y.-Q., Black, L., Köster, R. and Janek, M. (2007): Hydrophobic coagulation and aggregation of hematite particles with sodium dodecylsulfate. *Colloids Surfaces A: Physicochem. Eng. Aspects*, 298, 235-244. (JCR 2007 = 1.601, Q3) AP40 % (A-)

ADC15: Janek, M., Emmerich, K., Heissler, S. and Nüesch, R. (2007): Thermally induced grafting reactions of ethylene glycol and glycerol intercalates of kaolinite. *Chemistry of Materials*, 19, 684-693. (JCR 2007 = 4.883, Q1) AP25 % (A+)

ADC16: Janek M., Bugár I., Lorenc D., Szócs V., Velit D. and Chorvát D. (2009) Terahertz time-domain spectroscopy of selected layered silicates. *Clays and Clay Minerals* 57, 416-424. (JCR 2009 = 1.431, Q2) AP20 % (A)

ADC17: Žitňan M., Szócs V., Janek M., Bugár I., Bďžoch J., Pálszegi T., Link G. and Velit D. (2009) Fluorescence Dynamics of Coumarin CS22 on Reduced-Charge Montmorillonite in Aqueous Dispersion. *Langmuir*, 25, 6800-6807. (JCR 2009 = 3.898, Q1) AP10 % (A+)

ADC18: Janek M., Matejdes M., Szöcs V., Bugár I., Gaál A., Velič D. and Darmo J. (2010) Dielectric properties of micaceous clays determined by terahertz time-domain spectroscopy. *Philosophical Magazine*, 90, 2399-2413. (JCR 2010 = 1.304, Q1) AP20 % (A+)

ADC19: Rozynek Z., Zacher T., Janek M., Čaplovičová M. and Fossum J.O. (2013) Electric-field-induced structuring and rheological properties of kaolinite and halloysite. *Applied Clay Science*, 77-78, 1-9. (JCR 2013 = 2.703, Q1) AP20 % (A+)

ADC20: Janek M., Vincze A., Darmo J., Szöcs V., Matejdes M., Zacher T., Kavecký Š., Daničik V., Velič D., Lorenc D., Srnánek R., Šarka A., Haško D., Matuska J. and Uhrek F. (2013) Dielectric properties of Boron Nitride in THz region synthesized with non-energetic CVD. *International Journal of Applied Ceramic Technology*, SI, 1-10, DOI:10.1111/ijac.12102. (JCR 2007 = 1.215, Q1) AP8 % (A+)

ADC21: Zich D., Zacher T., Darmo J., Szöcs V., Lorenc D. and Janek M. (2013) Far-infrared investigation of kaolinite and halloysite intercalates using terahertz time-domain spectroscopy. *Vibrational Spectroscopy*, 69, 1-7. (JCR 2013 = 1.547, Q3) AP20 % (A-)

ADC22: Janek M., Zich D. and Naftaly M. (2014) Terahertz time-domain response of amines and aminoacids intercalated smectites in far-infrared region. *Materials Chemistry and Physics*, 145, 278-287. DOI: 10.1016/j.matchemphys.2014.02.004. (JCR 2014 = 2.259, Q2) AP35% (A)

ADC23: Matejdes M., Cimerová A. and Janek M. (2015) Fluorescence tuning of 2D optically active layers with montmorillonite and beta-cyclodextrine/dye supramolecular complexes. *Applied Clay Science*, 114, 9-19. DOI: 10.1016/j.clay.2015.05.002 (JCR 2015 = 2.586, Q2) AP40% (A)

ADC24: Michels L., Fossum J. O., Rozynek Z., Hemmen H., Rustenberg K., Sobas P. A., Kalantzopoulos G. N., Knudsen K. D., Janek M., Plivelic T. S. and da Silva G. J. (2015) Intercalation and Retention of Carbon Dioxide in a Smectite Clay promoted by Interlayer Cations. *Nature - Scientific Reports*, 5, 8775(1-9). DOI:10.1038/srep08775 (JCR 2015 = 5.228, Q1) AP9% (A+)

ADC25: Kavecký Š., Valúchová J., Čaplovičová M., Heissler S., Šajgalik P. and Janek M. (2015) Synthesis of carbon nanotubes by catalytic chemical vapor deposition using natural nontronites and catalyst derived from synthetic hematite particles. *Applied Clay Science*, 114, 170-178. DOI: 10.1016/j.clay.2015.06.001. (JCR 2015 = 2.586, Q2) AP20% (A)

ADC26: Jerigova M., Szöcs V., Janek M., Lorenc D., Velič D. (2016) Layer by layer analysis of micaceous clays using SIMS technique - spatial nanometer chemical analysis. *Applied Clay Science*, 132-133, 621-625. DOI: 10.1016/j.clay.2016.08.012 (JCR 2016 = 3.101, Q1) AP20% (A+)

ADC27: Zacher T., Hronský V., Naftaly M., Čaplovičová M., Emmerich K., Stieudel A., Mečiarová M., Janek M. (2017) Terahertz time domain detection of imidazolium ionic liquid reactivity in nanohybrid materials based on Kaolinite and Halloysite. *Applied Clay Science*, 135, 475-484. DOI: 10.1016/j.clay.2016.10.036. (JCR 2017 = 3.641, Q1) AP50% (A+)

ADC28 Trusova, E.; Klement, R.; Tratsiak, Y.; Baca, L.; Veteška, P.; Janek, M. (2019) Structure and Up-Conversion Luminescence of Er³⁺/Yb³⁺+Co-Doped Lanthanum Zirconate Ceramics. *Int. J. Nanosci*, SI 18(3-4), 1940081, DOI: 10.1142/S0219581X19400817. (JCR 2019 = N/A, SJR=Q3) AP25% (A-)

ADC29: Janek M., Žilinská V., Kovár V., Hajdúchová Z., Tomanová K., Peciar P., Veteška P., Gabošová T., Fialka R., Feranc J., Omaniková L., Plavec R., Bača L. (2020) Mechanical testing of hydroxyapatite filaments for tissue scaffolds preparation by fused deposition of ceramics. *J. Europ. Ceram. Soc.* 40, 4932-4938. DOI: 10.1016/j.jeurceramsoc.2020.01.061. (JCR 2020 = 5.302, Q1) AP10% (A+)

ADC30: Orlovská M., Chlup Z., Bača L., Janek M., Kitzmantel M. (2020) Fracture and mechanical properties of lightweight alumina ceramics prepared by fused filament fabrication. *J. Europ. Ceram. Soc.* SI 40, 4837-4843. DOI: 10.1016/j.jeurceramsoc.2020.02.026. (JCR 2020 = 5.302, Q1) AP5% (A+)

ADC31: Klyndyuk A.I., Matsukevich I. V., Janek M., Chizhova E. A., Lenčš Z., Hanzel O., Veteška P. (2020) Thermoelectric properties of a phase-heterogeneous ceramic based on Ca₃CoO₉+δ, prepared by hot pressing. *Russian Journal of Applied Chemistry* 93(8), 1126-1131. ISSN 1070-4272. (JCR 2020 = 0.850, Q4) AP20% (A-)

ADC32: Klyndyuk A.I., Matsukevich I. V., Janek M., Chizhova E. A., Lenčš Z., Hanzel O., Veteška P. (2020) Effect of Copper Additions on the Thermoelectric Properties of a Layered Calcium Cobaltite Prepared by Hot Pressing. *Inorganic Materials*, 56(11), 1198-1205. ISSN 0020-1685. (JCR 2020 = 0.864, Q4) AP20% (A-)

ADC33: Furka D., Naftaly M., Furka S., Šimon E., Tomanová K., Čaplovičová M., Janek M. (2020) Effect of Gallium and Boron doping on dielectric and conductivity properties of ZnO sintered from nanoparticles of different morphology in THz region. *Colloids Surfaces A: Physicochem. Eng. Aspects*, 611(10):125896. DOI:10.1016/j.colsurfa.2020.125896. (JCR 2020 = 4.539, Q2) AP30% (A)

ADM34 Sulym I.Y., Veteška P., Klement R., Hajdúchová Z., Lokaj J., Gatil A., Borysenko M.V., Janek M., Gryn D.V., Iakimenko M.S., Naumenko A.P. (2021) Structural, optical and luminescence features of Er³⁺/Yb³⁺ co-doped sol-gel silica glasses. *Functional Materials* 28, 14-21. DOI: 10.15407/fm28.01.14 (JCR 2021 = N/A, Q4) AP15% (A-)

ADC35: Furka D., Furka S., Naftaly M., Rakovský E., Čaplovičová M., Janek M. (2021) ZnO nanoparticles as photodegradation agent controlled by morphology and boron doping. *Catal. Sci. Technol.*, 11, 2167-2185. DOI: 10.1039/D0CY01802C. (JCR 2021 = 6.177, Q2) AP20% (A)

ADC36: Veteška, P., Hajdúchová, Z., Feranc, J., Tomanová, K., Milde, J., Kritikos, M., Bača, L., Janek, M. (2021) Novel composite filament usable in low-cost 3D printers for fabrication of complex ceramic shapes. *Applied Materials Today*, 22, 100949, 1-11. (JCR 2021 = 8.663, Q1) AP15% (A+)

ADC37: Orlovská M., Hain M., Kitzmantel M., Veteška P., Hajdúchová Z., Janek M., Vozarová M., Bača L. (2021) Monitoring of critical processing steps during the

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Oddelenie anorganických materiálov, ÚAChTM FCHPT STU

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- ADC17: Žitňan M., Szócs V., Janek M., Bugár I., Bďžoch J., Pálszegi T., Link G. and Velič D. (2009) Fluorescence Dynamics of Coumarin C522 on Reduced-Charge Montmorillonite in Aqueous Dispersion. *Langmuir*, 25, 6800-6807. (JCR 2009 = 3.898, Q1) AP10 % (A+)

- production of high dense 3D alumina parts using Fused Filament Fabrication technology. Additive Manufacturing 48, 102395. DOI: 10.1016/j.addma.2021.102395. (JCR 2021 = 11.632, Q1) AP10% (A+)
- ADC38: Poletanovic B., Janotka I., Janek M., Bačuvčík M., Merta I. (2021) Influence of the NaOH-treated hemp fibres on the properties of fly-ash based alkali-activated mortars prior and after wet/dry cycles. Constr. Build. Mater. 309, 125072. DOI: 10.1016/j.conbuildmat.2021.125072 (JCR 2021 = 7.693, Q1) AP15% (A+)
- ADC39: Orlovská M., Hůlek L., Bača L., Kovár V., Tomanová K., Kitzmantel M., Janek M., E. Neubauer (2022) Study of the alumina sintering process with a low zirconia content. Ceramics International 48(2) 2736-2743. DOI: 10.1016/j.ceramint.2021.10.060. (JCR 2021 = 5.532, Q1) AP5% (A+)
- ADC40: Janek M., Klement R., Naftaly M., Trusova E., Gatial A., Veteška P., Bača L. (2022) Terahertz response of Er³⁺/Yb³⁺ co-doped La₂Zr₂O₇ synthesised using the sol-gel precipitation method. Colloids Surfaces A : Physicochem. Eng. 644, 128836. DOI: 10.1016/j.colsurfa.2022.128836 (JCR 2021 = 5.518, Q2) AP25% (A)
- ADC41: Thurzo A., Gálfirová P., Varchulová Nováková Z., Polák Š., Varga I., Strunga M., Urban R., Surovková J., Leško L., Hajdúchová Z., Ferenc J., Janek M., Danišovič L. (2022) Fabrication and In Vitro Characterization of Novel Hydroxyapatite Scaffold 3D Printed Using Polyvinyl Alcohol as a Thermoplastic Binder. Int. J. Mol. Sci. 23, 14870. DOI: 10.3390/ijms232314870 (JCR 2021 = 6.208, Q1) AP20% (A+)
- ADC42: Vozarová M., Neubauer E., Bača L., Kitzmantel M., Ferenc J., Trenbošová V., Peciar P., Kritikos M., Orlovská M., Janek M., Matejdes M. (2023) Preparation of fully dense boron carbide ceramics by Fused Filament Fabrication (FFF). J. Europ. Ceram. Soc. 43 1751-1761. DOI: 10.1016/j.jeurceramsoc.2022.12.018 (JCR 2021 = 6.364, Q1) AP10% (A+)
- ADD Vedecké práce v domácich karentovaných časopisoch**
- ADD1: Janek, M. and Komadel, P. (1993): Autotransformation of H-smectites in aqueous solution. The effect of octahedral iron content. Geologica Carpathica - Clays 2, 59-64. (JCR od 1997 = 0.271, Q4) AP50 % (A-)
- ADD2: Janek, M. and Komadel, P. (1999): Acidity of proton saturated and autotransformed smectites characterised with proton affinity distribution. Geologica Carpathica 50, 373-378. (JCR od 2021 = 0.486, Q4) AP50 % (A-)
- ADE Vedecké práce v ostatných zahraničných časopisoch**
- ADE1: Gates, W. P., Madejová, J., Janek, M. and Komadel, P. (1996): Spectroscopic study of hectorite dissolution in HCl. Acta Universitatis Carolinae - Geologica 38, 183-191. AP25 % (B)
- ADE2: Janek, M. (2002): From environmental particles to nanostructured materials. Nachrichten aus dem ITC-WGT, Forschungszentrum Karlsruhe, 1 (2), 131-138. AP100 % (B)
- ADE3: Ji, Y.-Q., Köster, R. and Janek, M. (2002): Coagulation of synthetic and natural colloidal particles by surfactants. Nachrichten aus dem ITC-WGT, Forschungszentrum Karlsruhe, 1(4), 5-17. AP60 % (B)
- ADE4: Zemanová, M., Janek, M., Link, G., Nüesch, R., Thumm, M., and Takayama, S. (2006): Enhanced layer charge modification in smectites by using microwaves. VDI Berichte Nanofair 2006 New ideas for industry, 1940, 63-66. AP25 % (A-)
- ADE5: Palačka P., Furka S., Furka D., Huzevka T., Gallik D., Janek M. (2020) Q-VENT—A novel device for emergency ventilation of the lungs in patients with respiratory failure due to diseases such as COVID-19. Med. Devices. Sens. e10124. 1-14. DOI: 10.1002/mds3.10124. AP15% (A-)
- ADF Vedecké práce v ostatných domácich časopisoch**
- ADF1: Čumakov, A., Hrnčiarová, K., Janek, M. and Árvaiová, B. (1997) Determination of the potassium fertilization requirement with the EUF-method. Listy cukrovnícké a řepařské 113, 322-327. AP20 % (A-)
- ADF2: Kavecký Š., Štefánik P., Hnatko M. and Janek M. (2013) Carbon nanotubes and short high modulus carbon fibres combination to composite preparation. Acta Metallurgica Slovaca - Conference, 3, 231-236. (JCR od 2022 = 1.000, Q4 od 2017) AP25 % (B)
- ADF3: Vincze A., Šatka A., Haško D., Janek M., Danielik V., Uherek F. and Matuska J. (2009): Chemical analysis and surface investigation of pyrolytic boron nitride (PBN). 61-st Conference of Czech and Slovak Chemical Societies, High Tatras 7.-11. September 2009, Slovak Republic, p.114. AP10 % (B)
- ADM Nekarentované databázové publikácie zahraničné (WoS/Scopus)**
- ADM1 Janek M., Veteška P., Randová K., Hajdúchová Z., Tomanová K., Ferenc J., Plavec R., Omaniková L., Smrčková E., Alexy P. and Bača L. (2019) Ceramic architectures as models for 3D printed tissue engineering applications. Clinician and Technology Journal, 49(1), 31-35. ISSN 0301-5491 (Print), ISSN 2336-5552 (Online) AP10% (A-)

3. Článok zo zborníka a monografie

AEC Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch

- AEC1: Link, G., Hauser-Fuhlberg, M., Janek, M., Nüesch, R., Takayama, S., Thumm, M. and Weisenburger, A. (2004) Millimeter-wave high temperature processing of powders. Proceedings of Conf. Digest of the Joint 29th International Conference on Infrared and Millimeter Waves and 12th International Conference on Terahertz Electronics, eds. M Thumm, W. Wiesbeck; University of Karlsruhe, Germany, September 27 - October 1, 2004, pp.829-830. AP15 % (B)
- AEC2: Link, G., Hauser-Fuhlberg, M., Janek, M., Nüesch, R., Takayama, S. and Thumm, M. (2004) The application of microwave technology for powder materials. Proceedings of Microwave 2004: Internat. Symp. on Microwave Science and its

Application to Related Fields, Takamatsu, Japan, July 27-30, 2004, pp.145-150.
AP15 %

AEC3: L. Bača, M. Janek, Z. Kováčová, J. F. Molloy and M. Naftaly, "Dielectric properties of CaZrO₃ investigated by THz-TDS," 2015 40th International Conference on Infrared, Millimeter, and Terahertz waves (IRMMW-THz), Hong Kong, 2015, pp. 1-2, doi: 10.1109/IRMMW-THz.2015.7327890. ISBN 978-1-4799-8272-1
AP25 % (B)

AFA Publikované pozvané príspevky na zahraničných vedeckých konferenciách

AFA1 Janek M., Zich D., Zacher T. and Naftaly M., THz-TDS of Chemically Modified Natural or Synthetic Layered Clay Systems. Conference proceedings ICTON 2014 (Jaworski M., Marciniak M. Eds.) 7 – 10 July 2014, University of Technology Graz, Austria, IEEE 978-1-4799-5601-2/14, Th.B5.4. 4 s.
Osobne prednesená prednáška AP30% (B)

AFD Publikované príspevky na domácich vedeckých konferenciách

AFD1: Vineze A., Šatka A., Haško D., Janek M., Danielik V., Uhrek F. and Matuska J. (2009) Surface investigation of PBN using SIMS. APCOM 2009. Applied Physics of Condensed Matter: Proceedings of the 15th International Workshop. Bystřá, Slovak Republic, 24.-26.6.2009. – Žilina, 84-87.
AP14 %

AFD2: Janek M., Vineze A., Matejdes M., Zacher T., Darmo J., Kavecký Š., Šatka A., Haško D., Danielik V., Uhrek F. and Matuska J. (2014) Vhodnosť pBN na štúdium taveninových sústav v infračervenej a ďalekej infračervenej oblasti pomocou THz-TDS. Zborník príspevkov ITSPAM 2014 (J. Valúchová Ed.), Borinka pri Bratislave, 20. – 21. Október 2014, s. 68-74. ISBN 978-80-971648-2-9.
Osobne prednesená prednáška AP10 %

AFD3: Zich D., Čermušák I., Matejdes M., Bugár I., Janek M. (2011) Štúdium jednoduchých zlietín pomocou terahertzovej spektroskopie v ďalekej infračervenej oblasti. ŠVK PRIF UK (27. April 2011). ISBN 978-80-223-3013-8, 1114-1118.
AP10 %

AFD4: Zich D., Matejdes M., Zacher T., Janek M. (2012) Štúdium vybraných vrstevnatých materiálov metódou THz spektroskopie s časovým rozlíšením. ŠVK PRIF UK (25. April 2012). ISBN 978-80-223-3213-2, 1068-1073.
AP30 %

AFD5: Zich D., Darmo J., Szöcs V., Lorenc D., Janek M. (2013) Priprava a štúdium hybridných vrstevnatých materiálov pomocou THz-TDS. ŠVK PRIF UK (24. April 2013), ISBN 978 – 80 – 223 – 3392 – 4, p. 1222-1227.
AP25 %

AFD6: Janek M. (2015) Využitie nových metód pri štúdiu dielektrických vlastností keramikých a silikátových materiálov. Zborník príspevkov SILITECH 2015, Gabčíkovo, 29. máj 2015, 35-40. ISBN 978-80-227-4361-7.
Osobne prednesená prednáška AP100 %

AFD7: L. Bača, M. Orlovská, K. Tomanová, M. Janek, Syntéza nanovláken hydroxyapatitu pre prípravu bioaktívnych a biodegradovateľných keramik – polymér

kompozitov. Zborník príspevkov SILITECH 2015, Gabčíkovo, 29. máj 2015, 6-11. ISBN 978-80-227-4361-7.
AP25 %

AFD8: Zacher T., Hronský V., Naftaly M., Čaplovičová M., Emmerich K., Janek M. (2016) Kaolinite delamination and its transformation to halloysite during the treatment with ionic liquid. PROCESSING AND PROPERTIES OF ADVANCED CERAMICS - WORKSHOP - Book of extended abstracts (Rev. by D.Galusek, K.Maca, Z.Lenčák, M.Hnatko, J.Sedláček, M.Mikula, A.Kovalčíková), 23rd – 25th November 2016, Ružín, Slovak Republic, 76-82. ISBN 978-80-971648-5-0.
Osobne prednesená prednáška AP20 %

AFD9: D. Furka, S. Furka, M. Naftaly, M. Čaplovičová, M. Janek (2017) Composite materials based on ZnO nanoparticles and their dielectric response determined by the terahertz time domain spectroscopy. Proceedings - XIth International Conference PREPARATION OF CERAMIC MATERIALS 2017, June 13 – 15, Jahodná, Slovak Republic, 99-104. ISBN: 978-80-553-3160-7.
Osobne prednesená prednáška AP25 %

AFD10: D. Furka, S. Furka, M. Naftaly, M. Čaplovičová, M. Janek (2019) Terahertz time-domain spectroscopy of the boron doped ZnO materials. Proceedings - XIIth International Conference PREPARATION OF CERAMIC MATERIALS 2019, June 25 – 27, Jahodná, Slovak Republic, 45-50. ISBN: 978-80-553-3314-4.
Osobne prednesená prednáška AP30 %

AFD11: Janek M., Gabošová, T., Fialka R., Hajdúchová Z., Veteška P., Tomanová, K., Ferenc J., Plavec R., Kovár V., Peciar P., Bača L., Alexy P. Hydroxyapatite based materials for FDC 3D printing filaments applicable in tissue scaffolds development. In Preparation of Ceramic Materials : Proceedings of the 13th International Conference. I. vyd. Košice : Technická univerzita v Košiciach, 2019, S. 115-122. ISBN 978-80-553-3314-4. Osobne prednesená prednáška AP10 %

AFD12: Janek M., Gabošová T., Fialka R., Kovár V., Žilinská V., Hajdúchová Z., Veteška P., Peciar P., Ferenc J., Bača L. Mechanical properties of HAP based filaments and buckling simulation as indicator of printability in FDC. Processing and properties of advanced ceramics and glasses : Book of extended abstracts – 1 vyd. Bratislava : Slovenská akadémia vied. Ústav anorganickej chémie, 2019, s. 16-21. ISBN 978-80-971648-8-1.
Osobne prednesená prednáška AP19 %

AFD13: Hajdúchová Z., Jurašková S., Orlovská M., Ferenc J., Veteška P., Ferencová M., Tomanová K., Bača L., Janek M. Flexural strength of ceramic bodies prepared by 3D printing. Proceedings: Processing and properties of advanced ceramics and glasses. Mojmirovce, September 28-30, 2022, Slovak Republic, 6-10. ISBN 978-80-973578-1-8.
Osobne prednesená prednáška AP5%

AFD14: Bača L., Hajdúchová Z., Veteška P., Tomanová K., Orlovská M., Ferenc J., Ferencová M., Peciar P., Janek M. Microwave sintering of 3D printed hydroxyapatite scaffolds. Proceedings: Processing and properties of advanced ceramics and glasses. Mojmirovce, September 28-30, 2022, Slovak Republic, 11-16. ISBN 978-80-973578-1-8
8
Osobne prednesená prednáška AP5%

AFD15: Janek M., Vašková I., Hajdúchová Z., Veteška P., Orlovská M., Ferenc J., Ferencová M., Tomanová K., Peciar P., Fialka R., Bača L. Effect of sintering

production of high dense 3D alumina parts using Fused Filament Fabrication technology. Additive Manufacturing 48, 102395. DOI: 10.1016/j.addma.2021.102395. (JCR 2021 = 11.632, Q1) AP10% (A+)

ADC38: Poletanovic B., Janotka I., Janek M., Bačuvčík M., Merta I. (2021) Influence of the NaOH-treated hemp fibres on the properties of fly-ash based alkali-activated mortars prior and after wet/dry cycles. Constr. Build. Mater. 309, 125072. DOI: 10.1016/j.conbuildmat.2021.125072 (JCR 2021 = 7.693, Q1) AP15% (A+)

ADC39: Orlovská M., Hůlek L., Bača L., Kovár V., Tomanová K., Kitzmantel M., Janek M., E. Neubauer (2022) Study of the alumina sintering process with a low zirconia content. Ceramics International 48(2) 2736-2743. DOI: 10.1016/j.ceramint.2021.10.060. (JCR 2021 = 5.532, Q1) AP5% (A+)

ADC40: Janek M., Klement R., Naftaly M., Trusova E., Gatial A., Veteška P., Bača L. (2022) Terahertz response of Er³⁺/Yb³⁺ co-doped La₂Zr₂O₇ synthesised using the sol-gel precipitation method. Colloids Surfaces A : Physicochem. Eng. 644, 128836. DOI: 10.1016/j.colsurfa.2022.128836 (JCR 2021 = 5.518, Q2) AP25% (A)

ADC41: Thurzo A., Gálfirová P., Varchulová Nováková Z., Polák Š., Varga I., Strunga M., Urban R., Surovková J., Leško L., Hajdúchová Z., Ferenc J., Janek M., Danišovič L. (2022) Fabrication and In Vitro Characterization of Novel Hydroxyapatite Scaffolds 3D Printed Using Polyvinyl Alcohol as a Thermoplastic Binder. Int. J. Mol. Sci. 23, 14870. DOI: 10.3390/ijms232314870 (JCR 2021 = 6.208, Q1) AP20% (A+)

ADC42: Vozarová M., Neubauer E., Bača L., Kitzmantel M., Ferenc J., Trembošová V., Peciar P., Kritikos M., Orlovská M., Janek M., Matejdes M. (2023) Preparation of fully dense boron carbide ceramics by Fused Filament Fabrication (FFF). J. Europ. Ceram. Soc. 43 1751-1761. DOI: 10.1016/j.jeurceramsoc.2022.12.018 (JCR 2021 = 6.364, Q1) AP10% (A+)

ADD Vedecké práce v domáciach karentovaných časopisoch

ADD1: Janek, M. and Komadel, P. (1993): Autotransformation of H-smectites in aqueous solution. The effect of octahedral iron content. Geologica Carpathica - Clays 2, 59-64. (JCR od 1997 = 0.271, Q4) AP50 % (A-)

ADD2: Janek, M. and Komadel, P. (1999): Acidity of proton saturated and autotransformed smectites characterised with proton affinity distribution. Geologica Carpathica 50, 373-378. (JCR od 2021 = 0.486, Q4) AP50 % (A-)

ADE Vedecké práce v ostatných zahraničných časopisoch

ADE1: Gates, W. P., Madejová, J., Janek, M. and Komadel, P. (1996): Spectroscopic study of hectorite dissolution in HCl. Acta Universitatis Carolinae - Geologica 38, 183-191. AP25 % (B)

ADE2: Janek, M. (2002): From environmental particles to nanostructured materials. Nachrichten aus dem ITC-WGT, Forschungszentrum Karlsruhe, 1 (2), 131-138. AP100 % (B)

ADE3: Ji, Y.-Q., Köster, R. and Janek, M. (2002): Coagulation of synthetic and natural colloidal particles by surfactants. Nachrichten aus dem ITC-WGT, Forschungszentrum Karlsruhe, 1(4), 5-17. AP60 % (B)

ADE4: Zemanová, M., Janek, M., Link, G., Nüesch, R., Thumm, M., and Takayama, S. (2006): Enhanced layer charge modification in smectites by using microwaves. VDI Berichte Nanofair 2006 New ideas for industry, 1940, 63-66. AP25 % (A-)

ADE5 Palacka P., Furka S., Furka D., Huzevka T., Gallik D., Janek M. (2020) Q-VENT—A novel device for emergency ventilation of the lungs in patients with respiratory failure due to diseases such as COVID-19. Med. Devices. Sens. e10124. 1-14. DOI: 10.1002/mds3.10124. AP15% (A-)

ADF Vedecké práce v ostatných domácich časopisoch

ADF1: Čumakov, A., Hrnčiarová, K., Janek, M. and Árvaiová, B. (1997) Determination of the potassium fertilization requirement with the EUF-method. Listy cukrovnícké a repárske 113, 322-327. AP20 % (A-)

ADF2: Kavecký Š., Štefánik P., Hnatko M. and Janek M. (2013) Carbon nanotubes and short high modulus carbon fibres combination to composite preparation. Acta Metallurgica Slovaca - Conference, 3, 231-236. (JCR od 2022 = 1.000, Q4 od 2017) AP25 % (B)

ADF3: Vincze A., Šatka A., Haško A., Janek M., Danielik V., Uhrek F. and Matuška J. (2009): Chemical analysis and surface investigation of pyrolytic boron nitride (PBN). 61-st Conference of Czech and Slovak Chemical Societies, High Tatras 7.-11. September 2009, Slovak Republic, p.114. AP10 % (B)

ADM Nekarentované databázové publikácie zahraničné (WoS/Scopus)

ADM1 Janek M., Veteška P., Randová K., Hajdúchová Z., Tomanová K., Ferenc J., Plavec R., Omaniková L., Smrčková E., Alexy P. and Bača L. (2019) Ceramic architectures as models for 3D printed tissue engineering applications. Clinician and Technology Journal, 49(1), 31-35. ISSN 0301-5491 (Print), ISSN 2336-5552 (Online) AP10% (A-)

3. Článok zo zborníka a monografie

AEC Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch

AEC1: Link, G., Hauser-Fuhlberg, M., Janek, M., Nüesch, R., Takayama, S., Thumm, M. and Weisenburger, A. (2004) Millimeter-wave high temperature processing of powders. Proceedings of Conf. Digest of the Joint 29th International Conference on Infrared and Millimeter Waves and 12th International Conference on Terahertz Electronics, eds. M Thumm, W. Wiesbeck; University of Karlsruhe, Germany, September 27 - October 1, 2004, pp.829-830. AP15 % (B)

AEC2: Link, G., Hauser-Fuhlberg, M., Janek, M., Nüesch, R., Takayama, S. and Thumm, M. (2004) The application of microwave technology for powder materials. Proceedings of Microwave 2004: Internat. Symp. on Microwave Science and its

- temperature on cytotoxicity of 3D printed hydroxyapatite scaffolds. Proceedings: Processing and properties of advanced ceramics and glasses. Mojmirovec, September 28-30, 2022, Slovak Republic, 17-21. ISBN 978-80-973578-1-8. AP13%
- AFD16: D. Furka, S. Furka, M. Naftaly, M. Janek, Dielektrické vlastnosti nanočastic ZnO stanovené prostredníctvom časovo rozlíšenej THz spektroskopie. In: Zborník recenzovaných príspevkov : Univerzita Komenského, Bratislava 2017, s. 916-921. ISBN 978-80-223-4310-7. AP25%
- AFD17: D. Furka, S. Furka, M. D. Lorenc, L. Haizer, M. Janek, Application of THz spectroscopy for characterization of ceramic and silicate materials. In: Processing and Properties of Advanced Ceramics and Glass, Vrátna-Belá, November 8-10, 2017 : Workshop Proceedings. - 1. vyd. - Trenčín : Alexander Dubček University of Trenčín, 2017, s. 100-107. ISBN 978-80-8075-786-1. AP 20%
- AFD18: D. Furka, S. Furka, M. Naftaly, M. Janek (2018) Hydrotermálna syntéza čistých aj dopovaných nanočastic ZnO a štúdium optických a dielektrických vlastností pomocou THz spektroskopie = Hydrothermal synthesis of pure and Boron doped nanoparticles of ZnO and their optical and dielectric properties in far infrared region. In: Študentská vedecká konferencia PriF UK 2018. Zborník recenzovaných príspevkov – 1. vyd. Univerzita Komenského v Bratislave, 2018, s. 822-828. ISBN 978-80-223-4517-0. AP 25%
- AFD19: Randová, K., Veteška, P., Hajdúchová, Z., Tomanová, K., Feranc, J., Plavec, R., Omaniková, L., Smrková, E., Bača, L., Alexy, P., Janek, M.: Fused deposition of ceramic architectures as models for 3D printed tissue engineering applications. In YBERC 2018 [elektronický zdroj] : The 8th young biomedical engineers and researchers conference. Košice, Slovakia. October 3-5, 2018. Košice : Technická univerzita v Košiciach, 2018, [4] s. ISBN 978-80-8086-271-8. AP 14%
- AFD20: Húlek, L., Orlovská, M., Bača, L., Kovár, V., Janek, M.: Zirconia inclusions as an inhibitor of alumina grain growth. In Processing and properties of advanced ceramics and glasses : Book of extended abstracts. 1. vyd. Bratislava : Institute of Inorganic Chemistry, SAS, 2019, S. 73-78. ISBN 978-80-971648-8-1. AP 10%
- AFD21: Orlovská, M., Chlup, Z., Bača, L., Janek, M., Kitzmantel, M., Neubauer, E.: Sintering of 3D printed alumina ceramics. In Processing and properties of advanced ceramics and glasses : Book of extended abstracts. 1. vyd. Bratislava : Institute of Inorganic Chemistry, SAS, 2019, S. 11-15. ISBN 978-80-971648-8-1. AP 5%
- AFD22: Veteška, P., Hajdúchová, Z., Bača, L., Feranc, J., Milde, J., Kritikos, M., Janek, M.: Thermal processing of composite material for 3D printing of ceramics. In Processing and properties of advanced ceramics and glasses : Book of extended abstracts. 1. vyd. Bratislava : Institute of Inorganic Chemistry, SAS, 2019, S. 5-10. ISBN 978-80-971648-8-1. AP 5%
- AFD23: Vozárová, M., Kováčová, Z., Neubauer, E., Trembošová, V., Bača, L., Kitzmantel, M., Janek, M.: Pressureless sintering of fine-grained boron carbide powders doped with carbon. In Processing and properties of advanced ceramics and glasses : Book of extended abstracts. 1. vyd. Bratislava : Institute of Inorganic Chemistry, SAS, 2019, S. 62-67. ISBN 978-80-971648-8-1. AP 5%

- AFD24: Gabošová, T., Janek, M. Priprava a vlastnosti kompozitov na báze hydroxyapatitu pre bioaplikácie s využitím 3D tlač. 21. celoslovenská študentská vedecká konferencia s medzinárodnou účasťou In: Chémia a technológia pre život. FCHPT STU v Bratislave 2019, 81-82. ISBN 978-80-8208-015-8. AP 50%
- AFD25: Fialka, R., Janek, M. Vysokoteplotné vlastnosti kompozitov na báze hydroxyapatitu pre 3d tlač kostných náhrad. 21. celoslovenská študentská konferencia s medzinárodnou účasťou In: Chémia a technológia pre život. FCHPT STU v Bratislave 2019, 83-84. ISBN 978-80-8208-015-8. AP 50%
- AFD26: Čičkan M., Janek M. Nanoparticles and nanocapsules with upconverting properties in the diagnosis of malignancies. In: Translational Research in Oncology and the Chances for Interdisciplinary Cooperation. – 1. vyd. – Bratislava : OncoReSearch, 2020. – ISBN 978-80-973702-0-6, s. 69-72. AP 50%
- AFD27: Furka S., Palacka P., Furka D., Janek M.: Q-vent, a new low-cost device for emergency lung ventilation made by 3D printing of advanced nanomaterials. In: Translational Research in Oncology and the Chances for Interdisciplinary Cooperation. – 1. vyd. – Bratislava : OncoReSearch, 2020. – ISBN 978-80-973702-0-6, s. 23-29. AP 20%
- AFD28: Čičkan M., Janek M. Vplyv tepelného zohrevu na vlastnosti hliníkotremítanov modifikovaných fotoluminiscenčnými prvkami vzácnych zemín. Študentská vedecká konferencia PriF UK 2021 : zborník recenzovaných príspevkov – 1. vyd. – Bratislava (Slovensko) : Univerzita Komenského v Bratislave. Prírodovedecká fakulta UK, 2021, s. 557-562. ISBN 978-80-223-5132-4. AP 50%
- AFE Abstrakty pozvaných príspevkov zo zahraničných vedeckých konferencií
- AFE1: Janek M., Bugár I., Lorenc D., Szócs V., Veljč D., Chorvát D. (2008): Application of terahertz time-domain spectroscopy for investigation of layered hydrosilicates, 4-th Mid European Clay Conference, Zakopane 2008, Poland, *Key-note lecture*, Mineralogia – Special papers, 33, p. 30. Osobne prednesená prednáška AP 20%
- AFG Abstrakty príspevkov zo zahraničných vedeckých konferencií
- AFG1: Janek, M. and Komadel, P. (1994): Effect of iron content on the stability of H-smectites. XIII-th Conference on Clay Mineralogy and Petrology, Prague 1994, Czech Republic. Osobne prednesená prednáška AP 50%
- AFG2: Janek, M., Komadel, P. and Lagaly G. (1996): H-smectites in aqueous dispersions, their autotransformation and changes in the charge of the layers. Mineralogical Society Clay Minerals Group Spring Meeting - Research in Progress, Sheffield Hallam University 1996, England. Osobne prednesená prednáška AP 40%
- AFG3: Janek, M. and Komadel, P. (1998): Acidity of proton saturated and autotransformed smectites characterised with proton affinity distribution. XV-th

Conference on Clay Mineralogy and Petrology, Brno 1998, Czech Republic. *Awarded by the SNCG committee.* Osobne prednesená prednáška AP 50%

AFG4: Janek, M. and Komadel, P. (1999): Desorption equilibrium of Cu^{2+} from montmorillonite surfaces studied by continuous affinity distribution approach. Euroclay 1999, Krakow, Poland. Osobne prednesená prednáška AP 50%

AFG5: Janek, M. and Lagaly G. (2000): Interaction of cetyltrimethylammonium chloride with bentonite in aqueous dispersions. DTTG meeting, Zürich 2000, Switzerland. Osobne prednesená prednáška AP 50%

AFG6: Janek, M., and Komadel P. (2001): Interactions of protons with smectite surfaces characterised with pK spectroscopy. 1st Late Summer Workshop – Interfaces in Aquatic Systems - Colloids, Biofilms, Sediment/Water/Air, Schloss Maurach, Lake Constance 2001, Germany. Osobne prednesená prednáška AP 50%

AFG7: Janek, M., Lagaly G. and Zimehl R. (2002): Flow modification of concentrated alumina slurries. Silikatische Rohstoffe – III. Gemeinschaftstagung mit internationaler Beteiligung der DKG, Amberg / Oberpfalz 2002, Germany. AP 40%

AFG8: Janek, M., Lagaly G. and Zimehl R. (2002): Effect of polyethylene-polypropylene oxide copolymer on rheological properties of the alumina suspensions. 6. Nachwuchstage der Kolloid- und Grenzflächenforschung der Kolloidgesellschaft e.V., TU Berlin 2002, Germany. AP 40%

AFG9: Janek, M., Ji Y.-Q. and Köster R. (2002): Coagulation of synthetic and natural colloidal particles by surfactants. Mineral Surface and Colloid Chemistry in Soil and Aquatic Environments – DBG Soil Chemistry and Soil Mineralogy Divisions, TH Karlsruhe 2002, Germany. AP 40%

AFG10: Ji, Y.-Q., Köster, R., Black, L. and Janek, M. (2003): Flocculation of synthetic hematite sols with sodium dodecylsulfate. Euroclay 2003, Modena, Italy. AP 30%

AFG11: Ji, Y.-Q., Black, L. and Janek, M. (2003): Heterocoagulation of sodium montmorillonite with colloidal hematite particles. Euroclay 2003, Modena, Italy. AP 30%

AFG12: Ji, Y.-Q., Black, L. and Janek, M. (2003): Application of the colloidal sols and environmental particles for the preparation of nanostructured materials. Jahrestagung der DMG 2003, Bochum, Germany. Osobne prednesená prednáška AP 30%

AFG13: Ji, Y.-Q., Köster, R. and Janek, M. (2003): Turbidimetric and electrokinetic study of synthetic and natural colloidal particles in the presence of ionic surfactants. Proceedings of 10th BCEIA. Oct. 13-16, Beijing 2003. H39, China. AP 30%

AFG14: Ji, Y.-Q., Black, L., Weidler P. and Janek, M. (2004): Heterocoagulation of natural layered silicates with synthetic hematite particles. 12th Wolfgang-Ostwald-Colloquium, Christian-Albrechts-University Kiel, March 25-26, Kiel 2004, Germany. AP 25%

AFG15: Ji, Y.-Q., Black, L., Weidler P. and Janek, M. (2004): Preparation of mesoporous composite materials by heterocoagulation. 3rd International Conference: Interfaces Against Pollution, IACIP; German Soil Science Society; German Colloid Society, RWTH Aachen, May 24-27, Jülich 2004, Germany. AP 25%

AFG16: Ji, Y.-Q., Black, L., Weidler P. and Janek, M. (2004): Preparation of mesoporous nanostructured material based on swellable layered clays. Beih. Z. Eur. J. Mineral. Vol. 16(1) (2004), 59, Jahrestagung der DTTG & DMG 2004, September 20-22, Karlsruhe, Germany. Osobne prednesená prednáška AP 25%

AFG17: Hauser-Fuhlberg, M., Nüesch, R. and Janek, M. (2004): Nanokomposite auf Kaolinitbasis. Beih. Z. Eur. J. Mineral. Vol. 16(1) (2004), 54, Jahrestagung der DTTG & DMG 2004, September 20-22, Karlsruhe, Germany. AP 30%

AFG18: Hauser-Fuhlberg, M., Janek, M., Nüesch, R. and Link, G. (2004): Meta-Kaolinit aus Kaolinit mittels Anwendung von (Millimeter-) Mikrowellen. Beih. Z. Eur. J. Mineral. Vol. 16(1) (2004), 55, Jahrestagung der DTTG & DMG 2004, September 20-22, Karlsruhe, Germany. AP 25%

AFG19: Link, G., Hauser-Fuhlberg, M., Janek, M., Nüesch, R., Takayama, S., Thumm, M. and Weisenburger, A. High Temperature Processing of Powders Using Millimeter-Waves. Fourth World Congress on Microwave and Radio Frequency Applications 7-12 November, 2004, Austin, Texas, USA. AP 15%

AFG20: Ji, Y.-Q., Black, L., Weidler P. and Janek, M. (2005): Swellable layered clay minerals and their utilization for mesoporous nanostructured materials. NanoMat 6. Szene, April 7-8, Researchcentre Karlsruhe, Germany. AP 25%

AFG21: Žitňan, M., Bďžoch, J., Bugár, I., Szűcs, V., Palszegi, T., Janek, M., Chorvát, D. and Velič, D. (2006): Fluorescence Dynamics of Coumarin in Montmorillonite Structure, 1st European Chemistry Congress 2006, Budapest, Hungary. AP 10%

AFG22: Matejdes, M., Janek, M. (2008): Effect of montmorillonite on the association constants of supramolecular complexes with fluorescence dyes, 4-th Mid European Clay Conference, Zakopane 2008, Poland, Mineralogia – Special papers, 33, p. 109. AP 20%

AFG23: Zacher, T., Janek, M. (2008): Preparation of novel inorganic - organic nanocomposites from „host - guest“ intercalates of kaoline and halloysite, 4-th Mid European Clay Conference, Zakopane 2008, Poland, Mineralogia – Special papers, 33, p. 185. AP 20%

AFG24: Valúchová, J., Kavecký, Š., Čaplovičová, M., Heissler, S., Janek, M. (2008): Synthesis of multiwall carbon nanotubes catalysed by smectite type of clays, 4-th Mid European Clay Conference, Zakopane 2008, Poland, Mineralogia – Special papers, 33, p. 171. AP 20%

AFG25: Aranyosiová, M., Velič, D., Lorenc, D., Janek, M. (2008): Spatial distribution of cations in selected layered silicates, SIMS Europe, 14-16 September 2008, Muenster, Germany, Book of Abstracts, p.110. AP 20%

- temperature on cytotoxicity of 3D printed hydroxyapatite scaffolds. Proceedings: Processing and properties of advanced ceramics and glasses. Mojmirovec, September 28-30, 2022, Slovak Republic. 17-21. ISBN 978-80-973578-1-8. AP 13%
- AFD16: D. Furka, S. Furka, M. Naftaly, M. Janek, Dielektrické vlastnosti nanočastic ZnO stanovené prostřednictvím časovo rozlišené THz spektroskopie. In: Zborník recenzovaných příspěvků : Univerzita Komenského, Bratislava 2017, s. 916-921. ISBN 978-80-223-4310-7. AP 25%
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- AFD18: D. Furka, S. Furka, M. Naftaly, M. Janek (2018) Hydrotermální syntéza čistých a dopovaných nanočastic ZnO a studium optických a dielektrických vlastností pomocí THz spektroskopie = Hydrothermal synthesis of pure and Boron doped nanoparticles of ZnO and their optical and dielectric properties in far infrared region. In: Studentská vědecká konference PříF UK 2018. Zborník recenzovaných příspěvků – 1. vyd. Univerzita Komenského v Bratislave, 2018, s. 822-828. ISBN 978-80-223-4517-0. AP 25%
- AFD19: Randová, K. Veteška, P., Hajdúchová, Z., Tomanová, K., Feranc, J., Plavec, R., Omaniková, L., Smrková, E., Bača, L., Alexy, P., Janek, M.: Fused deposition of ceramic architectures as models for 3D printed tissue engineering applications. In YBERC 2018 [elektronický zdroj] : The 8th young biomedical engineers and researchers conference. Košice, Slovakia. October 3-5, 2018. Košice : Technická univerzita v Košiciach, 2018, [4] s. ISBN 978-80-8086-271-8. AP 14%
- AFD20: Húlek, L., Orlovská, M., Bača, L., Kovár, V., Janek, M.: Zirconia inclusions as an inhibitor of alumina grain growth. In Processing and properties of advanced ceramics and glasses : Book of extended abstracts. 1. vyd. Bratislava : Institute of Inorganic Chemistry, SAS, 2019, S. 73-78. ISBN 978-80-971648-8-1. AP 10%
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- AFD22: Veteška, P., Hajdúchová, Z., Bača, L., Feranc, J., Milde, J., Kritikos, M., Janek, M.: Thermal processing of composite material for 3D printing of ceramics. In Processing and properties of advanced ceramics and glasses : Book of extended abstracts. 1. vyd. Bratislava : Institute of Inorganic Chemistry, SAS, 2019, S. 5-10. ISBN 978-80-971648-8-1. AP 5%
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- AFD24: Gabošová, T., Janek, M. Příprava a vlastnosti kompozitů na báze hydroxyapatitu pro bioaplikace s využitím 3D tlače. 21. celoslovenská studentská vědecká konference s mezinárodní účastí In: Chémia a technológia pre život. FCHPT STU v Bratislave 2019, 81-82. ISBN 978-80-8208-015-8. AP 50%
- AFD25: Fialka, R., Janek, M. Vysokoteplotné vlastnosti kompozitov na báze hydroxyapatitu pre 3d tlač kostných náhrad. 21. celoslovenská studentská vědecká konference s mezinárodní účastí In: Chémia a technológia pre život. FCHPT STU v Bratislave 2019, 83-84. ISBN 978-80-8208-015-8. AP 50%
- AFD26: Čičkan M., Janek M. Nanoparticles and nanocapsules with upconverting properties in the diagnosis of malignancies. In: Translational Research in Oncology and the Chances for Interdisciplinary Cooperation. – 1. vyd. – Bratislava : OncoReSearch, 2020. – ISBN 978-80-973702-0-6, s. 69-72. AP 50%
- AFD27: Furka S., Palacka P., Furka D., Janek M.: Q-vent, a new low-cost device for emergency lung ventilation made by 3D printing of advanced nanomaterials. In: Translational Research in Oncology and the Chances for Interdisciplinary Cooperation. – 1. vyd. – Bratislava : OncoReSearch, 2020. – ISBN 978-80-973702-0-6, s. 23-29. AP 20%
- AFD28: Čičkan M., Janek M. Vplyv tepelného záhrevu na vlastnosti hliníkokremičitanov modifikovaných fotoluminiscenčnými prvkami vzácných zemin. Studentská vědecká konference PříF UK 2021 : zborník recenzovaných příspěvků – 1. vyd. – Bratislava (Slovensko) : Univerzita Komenského v Bratislave. Přírodovědecká fakulta UK, 2021, s. 557-562. ISBN 978-80-223-5132-4. AP 50%
- AFE Abstrakty pozvaných příspěvků zo zahraničných vedeckých konferencií
- AFE1: Janek M., Bugár I., Lorenc D., Szöcs V., Velič D., Chorvát D. (2008): Application of terahertz time-domain spectroscopy for investigation of layered hydrosilicates, 4-th Mid European Clay Conference, Zakopane 2008, Poland, *Key-note lecture*, Mineralogia – Special papers, 33, p. 30. Osobne prednesená prednáška AP 20%
- AFG Abstrakty příspěvků zo zahraničných vedeckých konferencií
- AFG1: Janek, M. and Komadel, P. (1994): Effect of iron content on the stability of H-smectites. XIII-th Conference on Clay Mineralogy and Petrology, Prague 1994, Czech Republic. Osobne prednesená prednáška AP 50%
- AFG2: Janek, M., Komadel, P. and Lagaly G. (1996): H-smectites in aqueous dispersions, their autotransformation and changes in the charge of the layers. Mineralogical Society Clay Minerals Group Spring Meeting - Research in Progress, Sheffield Hallam University 1996, England. Osobne prednesená prednáška AP 40%
- AFG3: Janek, M. and Komadel, P. (1998): Acidity of proton saturated and autotransformed smectites characterised with proton affinity distribution. XV-th

- AFG26: Zacher, T., Janek, M. (2009): Coumarine intercalate nanocomposites based on kaoline and halloysite clays. XIV ICC (14 Medzinárodná Ľová Konferencia) Castellana Marina, Taliansko, 14.-20. Jún. AP 40%
- AFG27: Matejdes, M., Janek, M. (2009): Functionalisation of montmorillonite with supramolecular complexes based on fluorescence dyes, Castellana Marina, Taliansko, 14.-20. Jún. XIV ICC (14 Medzinárodná Ľová Konferencia), Book of abstracts II, Micro et Nano Scientiae Mare Magnum, p121. AP 40%
- AFG28: Janek M., Gaál A., Bugár I., Szöcs V., Velič D. (2009): Dielectric properties of micas determined by terahertz time-domain spectroscopy, Castellana Marina, Taliansko, 14.-20. Jún. XIV ICC (14 Medzinárodná Ľová Konferencia) Book of abstracts I, Micro et Nano Scientiae Mare Magnum, p569. AP 25%
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- AFG29: Zacher T., Janek M. (2010): Příprava nových nano – materiálů s fluorescenčními vlastnostmi na báze interkalovaného kaolinitu, 62. Zjazd českých a slovenských chemických společností, Pardubice 2010, Česká Republika, CHLSAC 104 (6), ISSN 0009 – 2770, p. 496 (in Slovak). AP 40%
- AFG30: Zacher T., Janek M. (2010): Nanocomposite clay minerals with fluorescence properties based on intercalation of kaolinite, 5 th Mid European Clay Conference – MECC, Budapest 2010, Hungary, Acta Mineralogica – Petrographica Abstract Series, (6) 2010, HU ISSN 0324 – 6523, p. 86. AP 40%
- AFG31: Matejdes M., Janek M. (2010): Štúdium disperzií a tenkých filmov na báze montmorillonitu a fluorescenčných farbív, 62. Zjazd českých a slovenských chemických spoločností, Pardubice 2010, Česká Republika, CHLSAC 104 (6), ISSN 0009 – 2770, p. 587 (in Slovak). AP 40%
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- AFG33: Zich D., Čermušák I., Matejdes M., Bugár I. and Janek M. (2010): Štúdium jednoduchých zlučenín pomocou terahertzovej spektroskopie v ďalekej infračervenej oblasti, 62. Zjazd českých a slovenských chemických spoločností, Pardubice 2010, Česká Republika, CHLSAC 104 (6), ISSN 0009 – 2770, p. 497 (in Slovak). AP 40%
- AFG34: Janek M., Matejdes M., Zich D., Bugár I., Szöcs V., Vincze A., Danielik V., Velič D. and Darmo J. (2010): Investigation of layered structures using terahertz time-domain spectroscopy, 5 th Mid European Clay Conference – MECC, Budapest 2010, Hungary, Acta Mineralogica – Petrographica Abstract Series, (6) 2010, HU ISSN 0324 – 6523, p. 697. AP 15%
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- AFG35: Rozynek Z., Fossum J.O., Zacher T., Janek M. and Čaplovičová M. (2012) Soil clay oil suspensions subjected to electric fields, May 2012, Lofoten - Soft Matter Physics & Complex Flows, Norway. AP 20%

- AFG36: D. Zich, J. Darmo, T. Zacher, V. Szöcs, D. Lorenc and M. Janek (2013) Chemical sensing of confined clay systems using THz-TDS. February 27-th - March 2-nd 2013 Warsaw, 1-st Annual Conference of COST Action MPI204 and International Conference on Semiconductor Mid-IR Materials and Optics SMMO2013, p. 19. AP 20%
- AFG37: Velič Dušan, Jerigová Monika, Szöcs Vojtech, Janek Marián, Lorenc Dušan, Atomic Layer by Layer Depth Profile of Muscovite by Secondary Ion Mass Spectrometry. In: NANOCON 2014. - Ostrava : TANGER, 2014, s. 45-46. ISBN 978-80-87294-55-0. AP 20%
- AFG38: L. Bača, M. Janek, Z. Kováčová and M. Nafaly (2015) THz-TDS investigation of dielectric properties of CaZrO₃. April 8-11-th 2015 Prague, 3-rd Annual Conference of COST Action MPI204 and 6-th International Conference on Semiconductor Mid-IR Materials and Optics SMMO2015, p. 46. ISBN 978-80-86269-23-8. AP 25%
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- AFG39: Hajdúchová, Z., Veteška, P., Tomanová, K., Randová, K., Plavec, R., Omaniková, L., Feranc, J., Bača, L., Janek, M.: Kompozitná struna vhodná na prípravu funkčných keramických materiálov pomocou 3D tlače. In Czech Chemical Society Symposium Series : 70. Sjezd českých a slovenských chemických společností Zlin, 9.-12.9.2018, Sborník příspěvků. Vol. 16, iss. 5 (2018), s. 443. ISSN 2336-7202. AP 5%
- AFG40: Trusová, E., Bača, L., Veteška, P., Janek, M.: Up-conversion luminescence of Er³⁺/Yb³⁺ codoped cerium zirconate ceramics. In 5th International Conference on Rare Earth Materials (REMATEC 2018), 16.-18.5.2018, Wrocław : Abstracts Book. 1. vyd. Wrocław : INTech Transfer technology Centre, 2018, S. 47. ISBN 978-83-940861-3-8. AP 25%
- AFG41: Sulym, I., Veteška, P., Gatal, A., Klement, R., Borysenko, M., Janek, M.: Fabrication and spectroscopic investigations of sol-gel quartz glasses co-doped with Er³⁺/Yb³⁺ ions. In 5th International Conference on Rare Earth Materials (REMATEC 2018), 16.-18.5.2018, Wrocław : Abstracts Book. 1. vyd. Wrocław : INTech Transfer technology Centre, 2018, s. 40-40. ISBN 978-83-940861-3-8. AP 17%
- AFG42: Trusová, E., Klement, R., Bača, L., Veteška, P., Janek, M.: Structure and luminescence of lanthanum zirconate ceramics. In XII International Conference on Excited States of Transitions Elements (ESTE 2019), 08.-13.9.2019, Wrocław: Book of Abstracts. Wrocław, Poland : University of Wrocław, 2019, S. 47-47. ISBN: 978-83-60043-37-0. AP 20%
- AFG43: Janek M., Vašková I., Feranc J., Tomanová K., Feracová M., Peciar P., Veteška P., Žilinská V., Hajdúchová Z., Bača L. Additive manufacturing of hydroxyapatite scaffolds for hard tissue replacements. EUROMAT 2021 European congress and exhibition on advanced materials and processes, SEPTEMBER 13-17, 2021 (VIRTUAL @ www.euromat2021.fems.eu) ID 790. Osobne prednesená prednáška AP 15%
- AFG44: Janek, M., Vašková, I., Fialka, R., Hajdúchová, Z., Veteška, P., Tomanová, K., Feranc, J., Ferancová, M., Bača, L. Hydroxyapatite scaffolds printed by fused filament fabrication. In: Keramik 2022, 07.-09.03.2022: Virtuelle Konferenz, Abstracts: Deutsche

- Keramische Gesellschaft, Kolín nad Rýnem (Nemecko) 2022, s.68.
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- AFG45: Veteška, P., Hajdúchová, Z., Feranc, J., Bača, L., Janek, M., Mullite-based ceramic composite for fused filament fabrication of complex ceramic shapes. In: Keramik 2022, 07.-09.03.2022: Virtuelle Konferenz, Abstracts: Deutsche Keramische Gesellschaft, Kolín nad Rýnem (Nemecko) 2022, s.142.
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- AFG46: Orlovská, M., Hain, M., Kitzmantel M., Veteška, P., Janek, M., Bača, L., Non-destructive monitoring of internal structure during the production of high dense 3D printed alumina parts. In: Keramik 2022 07.-09.03.2022: Virtuelle Konferenz, Abstracts: Deutsche Keramische Gesellschaft, Kolín nad Rýnem (Nemecko) 2022, s.101. AP 5%
- AFG47: Bača, L., Vaškova, I., Hajdúchová, Z., Veteška, P., Feranc, J., Janek, M., Influence of sintering temperature on the cytotoxicity of the 3D printed HAP scaffolds. In: Keramik 2022 07.-09.03.2022: Virtuelle Konferenz, Abstracts: Deutsche Keramische Gesellschaft, Kolín nad Rýnem (Nemecko) 2022, s.23.
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- AFG48: Orlovská, M., Shut, B., Veteška, P., Bača, L., Hajdúchová, Z., Feranc, J., Janek, M., Effect of printing variables on the voids elimination for manufacturing highly dense bulk mulite-based ceramics via Fused Filament Fabrication. In: Ceramics in Europe 2022, 10.-14.07.2022, Abstract book, Krakov (Poľsko): Polskie Towarzystwo Ceramiczne, 2022, s.131. ISBN 978-83-942760-9-6,
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- AFG49: Veteška, P., Novikova, K., Hajdúchová, Z., Ferancová, M., Feranc, J., Orlovská, M., Bača, L., Janek, M., Upcycling of waste glass in development of FFF ceramic material. In: Ceramics in Europe 2022, 10.-14.07.2022, Abstract book, Krakov (Poľsko): Polskie Towarzystwo Ceramiczne, 2022, s.171. ISBN 978-83-942760-9-6,
AP 5%
- AFG50: Bača, L., Orlovská, M., Feranc, J., Hajdúchová, Z., Ferancová, M., Tomanová, K., Veteška, P., Brandão, Ana, van der Made, K., Larsson, J., Janek, M., Additive manufacturing of ceramic components by fused deposition modelling technology. In: Ceramics in Europe 2022, 10.-14.07.2022, Abstract book, Krakov (Poľsko): Polskie Towarzystwo Ceramiczne, 2022, s.53. ISBN 978-83-942760-9-6,
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- AFG51: Janek, M., Fialka, R., Vaškova, I., Hajdúchová, Z., Veteška, P., Orlovská, M., Feranc, J., Peciar, P., Kovár, V., Bača, L., The effect of sintering temperature on material properties of 3D printed hydroxyapatite scaffolds. In: Ceramics in Europe 2022, 10.-14.07.2022, Abstract book, Krakov (Poľsko): Polskie Towarzystwo Ceramiczne, 2022, s.465. ISBN 978-83-942760-9-6, Osobne prednesená prednáška AP 15%
- AFH Abstrakty príspevkov z domácich vedeckých konferencií**
- AFH1: Janek, M. (1995): Effect of autotransformation on the layer charge of smectites determined by alkylammonium method. Competition of young scientific workers of the Institute of Inorganic Chemistry, Slovak Academy of Sciences, *first place*, Bratislava 1995, Slovak Republic.
Osobne prednesená prednáška AP 100%
- AFH2: Janek, M. (1996): Rheological properties of proton saturated smectite dispersions at low solid content - effect of counter ions and their characterisation with proton affinity distributions. Competition of young scientific workers of the Institute of Inorganic Chemistry, Slovak Academy of Sciences, *shared second and third place*, Bratislava 1996, Slovak Republic.
Osobne prednesená prednáška AP 100%
- AFH3: Janek, M. and Lagaly G. (2001): Interaction of cethyltrimethylammonium chloride with bentonite – a colloidal study. Mid European Clay Conference 2001, High Tatras 2001, Slovak Republic.
Osobne prednesená prednáška AP 50%
- AFH4: Janek, M., Komadel P. and Lagaly G. (2001): Flow properties of proton exchanged smectite dispersions. Mid European Clay Conference 2001, High Tatras 2001, Slovak Republic.
Osobne prednesená prednáška AP 20%
- AFH5: Madejova J., Janek, M., Komadel P. Herbert H.-J., and Moog H. C. (2001): Infrared study of MX-80 bentonite-salt solution systems. Mid European Clay Conference 2001, High Tatras 2001, Slovak Republic.
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- AFH6: Hauser F.-M., Janek, M., Link G., and Nüesch R. (2001): Dehydroxilation of kaolinite with millimeter wave treatment. Mid European Clay Conference 2001, High Tatras 2001, Slovak Republic.
AP 25%
- AFH7: Žitňan, M., Bďžoch, J., Bugár, I., Szöcs, V., Palszegi, T., Janek, M., Chorvát, D. and Velič D. (2006): Femtosecond Time-resolved Fluorescence Measurement of Coumarin in Montmorillonite Structure, Ecomos 2006, Smolenice, Slovak Republic.
AP 10%
- AFH8: Janek M., Bugár I., Lorenc D., Szöcs V., Velič D., Chorvát D. (2007): Dielectric properties of selected layered silicates determined by terahertz time-domain spectroscopy, 59-th Conference of Czech and Slovak Chemical Societies, High Tatras 2007, Slovak Republic.
Osobne prednesená prednáška AP 20%
- AFH9: Matejdes, M., Janek, M. (2009): Štúdium hybridných materiálov na báze montmorillonitu a supramolekulových komplexov s fluorescenčnými farbivami. 61-st Conference of Czech and Slovak Chemical Societies, High Tatras 7.-11. September 2009, Slovak Republic, p.66 (in Slovak).
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- AFH10: Janek M., Matejdes M., Szöcs V., Bugár I., Gaál A., Velič D. and Darmo J. (2009): Stanovenie dielektrických vlastností sľud pomocou terahertzovej spektroskopie s časovým rozlíšením. 61-st Conference of Czech and Slovak Chemical Societies, High Tatras 7.-11. September 2009, Slovak Republic, p.79 (in Slovak).
Osobne prednesená prednáška AP 20%
- AFH11: Zacher, T., Janek, M. (2009): Nanokompozitné ílové materiály s fluorescenčnými vlastnosťami na báze interkalovaného kaolinitu. 61-st Conference of Czech and Slovak Chemical Societies, High Tatras 7.-11. September 2009, Slovak Republic, p.139 (in Slovak).
AP 40%
- AFH12: Žitňan M., Szöcs V., Janek M., Jané E., Bugár I., Graničová O., Aranyosiová M., Lorenc D., Palszegi T., and Velič D. (2009): Fluorescence dynamics of coumarin in aqueous confinement – from cyclodextrine, through montmorillonite, to micelle. 61-st Conference of Czech and Slovak Chemical Societies, High Tatras 7.-11. September 2009, Slovak Republic, p.144.
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