

Ústav stavebníctva a architektúry SAV



Správa o činnosti organizácie SAV za rok 2020

Bratislava
január 2021

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1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Ústav stavebníctva a architektúry SAV

Riaditeľ: Ing. Peter Matiašovský, CSc.

Zástupca riaditeľa: Prof.Dr.Ing. Martin-Tchingnabé Palou

Vedecký tajomník: RNDr. Ladislav Kómar, PhD.

Predseda vedeckej rady: Mgr. Miroslav Kocifaj, PhD.

Člen Snemu SAV: Prof. Ing. Ján Sládeček, DrSc.

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Názvy a adresy organizačných zložiek a detašovaných pracovísk:

Organizačné zložky: nie sú

Detašované pracoviská: nie sú

Vedúci organizačných zložiek a detašovaných pracovísk:

Organizačné zložky: nie sú

Detašované pracoviská: nie sú

Členovia Snemu SAV za organizačné zložky:

nie sú

Typ organizácie: Príspěvková od roku 1994

1.2. Údaje o zamestnancoch

Tabuľka 1a Počet a štruktúra zamestnancov

Štruktúra zamestnancov	K	K		K do 35 rokov		F	P	T	O
		M	Ž	M	Ž				
Celkový počet zamestnancov	40	23	16	5	2	39	33.77	20.65	0
Vedeckí pracovníci	18	15	2	3	0	18	15.17	15.5	0
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci ¹⁾	5	3	2	2	2	4	2.25	2.15	0
Odborní pracovníci VŠ (ostatní zamestnanci ²⁾	5	0	5	0	0	5	4.7	0	0

Odborní pracovníci ÚS	7	2	5	0	0	7	7.25	3	0
Ostatní pracovníci	5	3	2	0	0	5	4.4	0	0

¹ odmeňovaní podľa 553/2003 Z.z., príloha č. 5² odmeňovaní podľa 553/2003 Z.z., príloha č. 3 a č. 4

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2020 (uvádzat' zamestnancov v pracovnom pomere, vrátane riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí, v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)

F – fyzický stav zamestnancov k 31.12.2020 (bez riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)

P – celoročný priemerný prepočítaný počet zamestnancov

T – celoročný priemerný prepočítaný počet riešiteľov projektov

O – celoročný priemerný prepočítaný počet obslužného personálu podielajúceho sa na riešení projektov (technikov, laborantov, projektových manažérov a pod.) mimo zamestnancov v administratíve, správe a údržbe budov, upratovačiek, vodičov a pod.

M, Ž – muži, ženy

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2020)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch			
	DrSc.	CSc./PhD.	prof.	doc.	I.	II.a.	II.b.	
Muži	2	11	4	2	3	7	6	
Ženy	1	1	0	0	1	1	0	

Tabuľka 1c Štruktúra pracovníkov podľa veku a rodu, ktorí sú riešiteľmi projektov

Veková štruktúra (roky)	< 31		31-35		36-40		41-45		46-50		51-55		56-60		61-65		> 65	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
Muži	1	0.5	4	3.5	3	2.5	0	0.0	0	0.0	2	2.0	1	1.0	2	2.0	3	3.0
Ženy	1	0.3	0	0.0	0	0.0	1	1.0	0	0.0	1	1.0	0	0.0	0	0.0	0	0.0

A - Prepočet bez zohľadnenia úvázkov zamestnancov

B - Prepočet so zohľadnením úvázkov zamestnancov

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2020

	Kmeňoví zamestnanci	Vedeckí pracovníci	Riešitelia projektov
Muži	49.5	47.8	47.9
Ženy	49.9	49.5	41.0
Spolu	49.6	48.0	46.8

1.3. Iné dôležité informácie k základným údajom o organizácii a zmeny za posledné obdobie (v zameraní, v organizačnej štruktúre a pod.)

2. Vedecká činnosť

2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2020

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
	A	B	A				B	
			Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organiza- záciu	Spolu	Pre organiza- záciu		
1. Projekty VEGA	5	0	39588	37043	-	-	-	-
2. Projekty APVV	4	0	-	-	268453	249786	-	-
3. Projekty OP ŠF	0	0	-	-	-	-	-	-
4. Projekty SASPRO	0	0	-	-	-	-	-	-
5. Iné projekty (FM EHP, ŠPVV, Vedecko-technické projekty, ESF, na objednávku rezortov a pod.)	2	0	-	-	42967	42967	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podielá na riešení projektu

Tabuľka 2b Domáce projekty podané v roku 2020

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podielá na riešení projektu
1. Účasť na nových výzvach APVV r. 2020	-		
2. Projekty výziev OP ŠF podané r. 2020	Bratislava Regióny		

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2020

Tabuľka 2c Medzinárodné projekty riešené v roku 2020

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
	A	B	A				B	
			Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organiza- záciu	Spolu	Pre organiza- záciu		
1. Projekty 7. RP EÚ a Horizont 2020	0	0	-	-	-	-	-	-
2. Projekty ERA.NET, ESA, JRP	0	0	-	-	-	-	-	-
3. Projekty COST	0	0	-	-	-	-	-	-
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	0	3	-	-	-	-	-	-
5. Projekty v rámci medzivládnych dohôd	0	0	-	-	-	-	-	-
6. Bilaterálne projekty MAD	0	0	-	-	-	-	-	-
7. Bilaterálne projekty ostatné	0	0	-	-	-	-	-	-
8. Podpora MVTS z národných zdrojov okrem SAV (APVV a iné)	0	0	-	-	-	-	-	-
9. Iné projekty	0	0	-	-	-	-	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podielá na riešení projektu

2.2.2. Medzinárodné projekty Horizont 2020 podané v roku 2020

Tabuľka 2d Počet projektov Horizont 2020 v roku 2020

	A	B
Počet podaných projektov Horizont 2020		

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podielá na riešení projektu

Údaje k domácim a medzinárodným projektom sú uvedené v Prílohe B.

2.2.3. Zámery na čerpanie štrukturálnych fondov EÚ v ďalších výzvach

2.3. Najvýznamnejšie výsledky vedeckej práce (maximálne 1000 znakov + 1 obrázok; bibliografický údaj uvádzajte rovnako ako v zozname publikačnej činnosti, vrátane IF)

2.3.1. Základný výskum

Satelitný monitoring atmosféry nad pozemnými zdrojmi svetla

(APVV-18-0014, VEGA 2/0010/20)

Mená riešiteľov: M. Kocifaj, S. Bará, L. Kómar, H. A. Solano-Lamphar, S. Wallner

Svetlo produkované pozemnými zdrojmi je príčinou neželaného presvetlenia prostredia miest, ale aj vyššie položených lokalít. Časť fotónov definitívne uniká do horného polpriestoru a predstavuje tak nielen energetické straty, ale je detegovateľný signál na orbite satelitov snímajúcich povrch Zeme. Ukázali sme, že svetelný signál závisí na znečistení spodnej atmosféry, čo otvorilo nové možnosti využitia doposiaľ pasívneho monitoringu zemského povrchu v noci. V spolupráci s Universidade de Santiago de Compostela sme vyvinuli metódu stanovenia fyzikálnych vlastností atmosférického aerosólu z intenzity rozptýleného svetla. Porovnaním intenzity difúzneho svetla na vonkajšom okraji mesta s priamymi svetelnými emisiami dokáže satelit určiť rozmerovú distribúciu aerosólu. Metóda tak umožňuje diaľkový monitoring atmosférického znečistenia a následne presnejšie modelovanie šírenia svetelného znečistenia z miest do ich okolia. Dve práce boli uverejnené v časopise zaradenom do tzv. Nature indexu.



Satelit deteguje žiaru zemského povrchu s uhlovým rozlíšením 0.03° (v závislosti od orbity). Obrázok bol vytvorený na podklade snímkov z earth.google.com (Earth at Night – Google Earth).

KOCIFAJ, Miroslav - BARÁ, Salvador. Aerosol characterization using satellite remote sensing of light pollution sources at night. In Monthly Notices of the Royal Astronomical Society: Letters, 2020, vol. 495, p. L76-L80. (2019: 5.356 - IF, Q1 - JCR, 1.964 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 1745-3925.(APVV-18-0014 : Globálna charakterizácia svetelného znečistenia). Typ: ADCA

KOCIFAJ, Miroslav** - KÓMAR, Ladislav - SOLANO LAMPHAR, H. A. - WALLNER, Stefan. Are population-based models advantageous in estimating the lumen outputs from light-pollution sources? In Monthly Notices of the Royal Astronomical Society: Letters, 2020, vol. 496, no. 1, p. L138-L141. (2019: 5.356 - IF, Q1 - JCR, 1.964 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 1745-3925.(APVV-18-0014 : Globálna charakterizácia svetelného znečistenia. VEGA 2/0010/20 : Difúzne svetlo v mestskom prostredí: nový model zohľadňujúci vlastnosti lokálnej atmosféry). Typ: ADCA

Modelovanie a numerické simulácie efektov viazaných polí v mikro/nano súčiastkach

Modelling and numerical simulations coupled field effects in micro/nano structural elements

(APVV-18-0004, SK-CN-RD-18-0005)

Je dobre známe, že klasické teórie kontinua sú škalovo invariantné a nepopisujú efekty veľkosti vzorky, ktoré sú experimentálne pozorovateľné v mikro/nano súčiastkach. Atomistické modely sú nepoužiteľné z dôvodov hardverových obmedzení a tiež sú nevhodné na získanie globálnej odozvy súčiastky na vonkajšie podnety. Najschodnejšími sa ukazujú byť modely zovšeobecnenej teórie kontinua. Z dôvodu derivácií vyšších rádov v gradientnych teóriach kontinua sú štandardné numerické výpočtové techniky nepraktické a nespoľahlivé. So zohľadením mikroštrukturálnych aspektov boli vypracované progresívne modely pre mnohé multifyzikálne problémy: konverzia tepelnej a elektrickej energie, foto-termoelasticcká analýza polovodičového mikro/nano nosníkového rezonátora, modelovanie funkcionálne gradovaných mikro/nano dosiek v modifikovanej teórii momentovej elasticity, trhlinové problémy v kvázi-kryštáloch a termoelasticckých materiáloch, modelovanie piezoelektrických a flexoelektrických efektov. Boli vyvinuté a rozpracované tri progresívne výpočtové metódy (mixed finite element method, moving finite element approximation method, meshless method with MLS approximation) na numerické riešenie úloh s vysokými deriváciami poľných premenných. Navrhnuté výpočtové techniky boli verifikované v mnohých numerických experimentoch a numerické simulácie priniesli užitočné vysvetlenia javov v mikro/nano súčiastkach.

[1] J. Sladek, V. Sladek, M. Repka, E. Pan: A novel gradient theory for thermoelectric material structures.

International Journal of Solids and Structures, 206 (2020) 292-303.

<https://doi.org/10.1016/j.ijsolstr.2020.09.023>

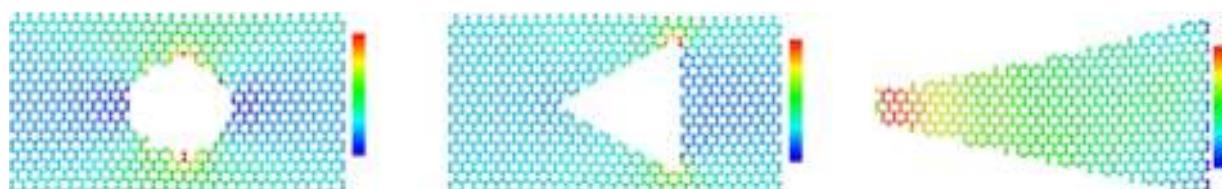
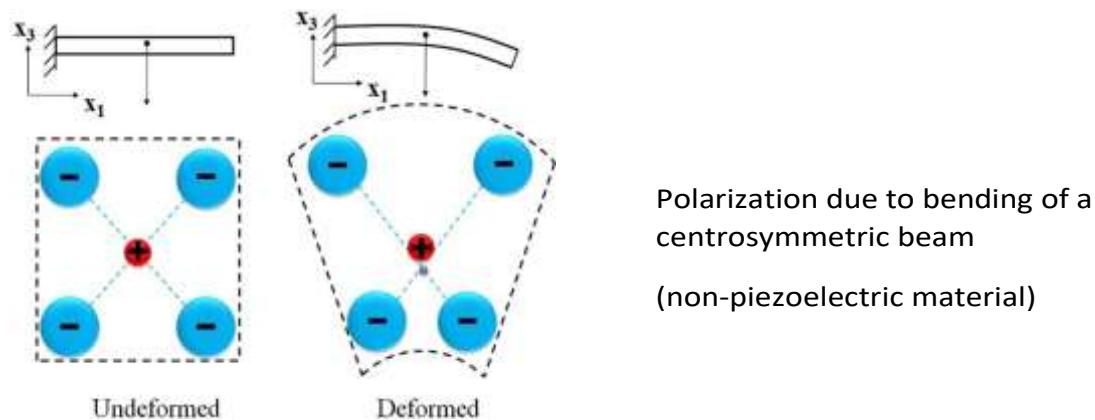
[2] S.M. Hosseini, J. Sladek, V. Sladek: Nonlocal coupled photo-thermoelasticity analysis in a semiconducting micro/nano beam resonator subjected to plasma shock loading: A Green-Naghdi-based analytical solution. *Applied Mathematical Modelling* 88 (2020) 631-651.

<https://doi.org/10.1016/j.apm.2020.06.069>

[3] V. Sladek, J. Sladek, M. Repka, L. Sator: FGM micro/nano-plates within modified couple stress elasticity. *Composite Structures* 245 (2020) 112294.

<https://doi.org/10.1016/j.compstruct.2020.112294>

- [4] J. Sladek, V. Sladek, P.H. Wen: The meshless analysis of scale-dependent problems for coupled fields, *Materials* **2020**, 13, 2527. <https://doi.org/10.3390/ma13112527>
- [5] X. Tian, M. Xu, Q. Deng, J. Sladek, V. Sladek, M. Repka, Q. Li: Size-dependent direct and converse flexoelectricity around a micro-hole, *Acta Mechanica* 231 (2020) 4851-4865. <https://doi.org/10.1007/s00707-020-02792-7>
- [6] L. Sator, V. Sladek, J. Sladek: Analysis of coupling effects in FGM piezoelectric plates by a meshless method. *Composite Structures* 244 (2020), 112256. <https://doi.org/10.1016/j.compstruct.2020.112256>
- [7] J. Sladek, V. Sladek, M. Repka, S. Schmauder: Crack analysis of nano-sized thermoelectric material structures. *Engineering Fracture Mechanics* 234 (2020) 107078.
- [8] O. Hrytsyna: A Bernoulli-Euler beam model based on the local gradient theory of elasticity. *Journal of Mechanics of Materials and Structures* 15 (2020) No 4, 471-487. <https://doi.org/10.2140/jomms.2020.15.471>



The flexoelectric effect by the non-uniform straining of a non-piezoelectric material (graphene nanoribbon)

Analýza efektov viazanosti v piezoelektrických smart materiáloch

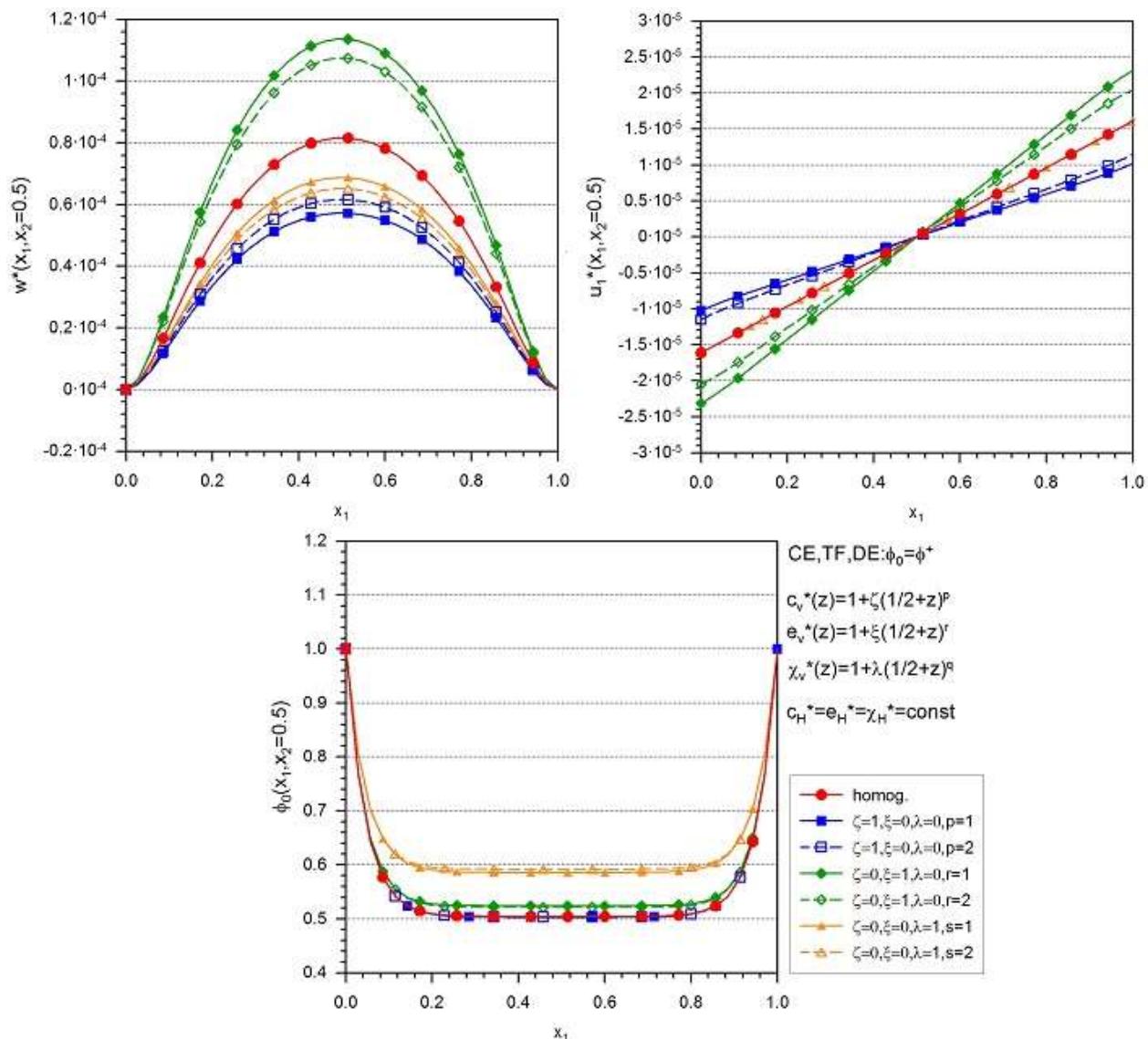
(SK-CN-RD-18-0005)

V poslednej dobe sa monitorovanie a samomonitorovanie inžinierskych konštrukcií stalo významnou úlohou inžinierskeho a vedeckeho badania. Inteligentné materiály, napr. piezoelektrické materiály používané ako senzory a aktuátory, sa zvyčajne vyrábajú ako laminované kompozity z keramických plátkov. Nespojitosť napäti na rozhraní medzi dvomi rôznymi materiálmi často predstavuje výrazný faktor poškodenia laminovaných kompozitných štruktúr. Preto je potrebné spoľahlivé predpovedanie mechanických napätií v kompozitných štruktúrach a tiež je to silnou motiváciou nahradíť laminované

doskové konštrukcie FGM (funkcionálne gradované materiály) doskami, ak je to možné. Je prirodzenou snahou mať jednotnú formuláciu úloh, ktorá by zahrnula deformačné predpoklady rôznych tórií ohybu dosiek a použitím rovnakých výpočtových metód poskytovala ucelený obraz odozvy dosiek na vonkajšie podnety s uvážením variability doskových charakteristík.

V práci [1] je vypracovaný jednotný model pre FGPM (funkcionálne gradované piezoelektrické materiály) dosky. Pre numerické riešenie pomerne zložitých okrajových úloh pre parciálne diferenciálne rovnice s premenlivými koeficientami je vyvinutá silná forma bezprvkovej metódy, využívajúca MLS approximáciu. Ukázalo sa, že funkcionálne gradovanie materiálových parametrov má veľmi výrazný vplyv na správanie sa FGM piezoelektrických dosiek.

[1] SÁTOR, Ladislav - SLÁDEK, Vladimír - SLÁDEK, Ján. Analysis of coupling effects in FGM piezoelectric plates by a meshless method. In Composite Structures, 2020, vol. 244, art. no. 112256. (2019: 5.138 - IF, Q1 - JCR, 1.784 - SJR, Q1 - SJR). ISSN 0263-8223.(SK-CN-RD-18-0005 : Multiškálová flexoelektrická teória a nova metóda na detekciu mikrotrhlín v dielektrikach v realnom čase).



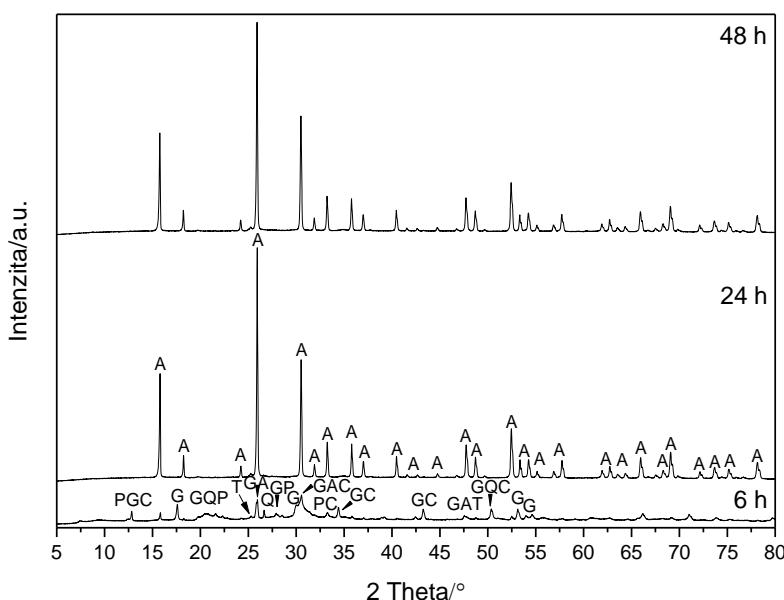
Obr. Vplyv tranzverzálnej gradácie elastickej (c_v), piezoelektrickej (e_v) a dielektrickej (χ_v) materiálových koeficientov na priebeh priebybov (w^*), rovinných deformácií (u_1^*) a elektrických potenciálov (ϕ_0^*) tenkých FGPM dosiek

Vplyv parametrov hydrotermálneho spracovania na zloženie zeolitov

(APVV-15-0631)

Zodpovedný riešiteľ: Martin T. Palou

Hydrotermálna príprava vysoko tepelne stabilného zeolitu analcímu, ktorého aplikácie zaznamenávajú prudký rozmach, patrí medzi bežné metódy. Dokumentované syntézy sú však často zložitejšie, vyžadujú korekciu zloženia východiskových surovín alebo nevedú k tvorbe čistej fázy. Dostatočne objasnený nie je ani mechanizmus transformácie geopolyméru na zeolit. Čistá kubická forma analcímu sa pripravila z metakaolínu a sodného vodného skla vhodným zvolením zloženia, vlastností východiskových látok a podmienok autoklávovania. Transformácia geopolyméru cez primárne zeolitické fázy bola študovaná ako funkcia dĺžky hydrotermálneho spracovania a prístupu vodnej pary. Bolo dokázané, že za prítomnosti vodnej pary sa táto začleňuje do štruktúry vytvárajúcich sa fáz. Okrem analcímu dochádza k tvorbe chabazitu-Na, gmelinitu-Na a zeolitu P2. Transformácia geopolyméru na čistú kubickú formu analcímu bola pri obmedzení prístupu vodnej pary ukončená po 24 h autoklávovania. Od teploty $350\text{ }^{\circ}\text{C}$ (rýchlosť ohrevu $10\text{ }^{\circ}\text{C min}^{-1}$) sa kubický analcím transformuje na tetragonálnu formu, ktorá sa pri $900\text{ }^{\circ}\text{C}$ mení na nefelin.



Obr. Prezentované RTG záznamy demonštrujú vplyv dĺžky autoklávovania na fázové zloženie vzoriek pripravených bez prístupu vodnej pary. Použité skratky: A – analcím, C – chabazit-Na, G – gmelinit-Na, P – zeolit P2, Q – kremeň, T – anatas

Výstupy:

1. KUZIELOVÁ, Eva - ŽEMLIČKA, Matúš - MÁSILKO, Jiří - HUDEC, Pavol - PALOU, Martin T. Influence of hydrothermal treatment parameters on the phase composition of zeolites. In Journal of Thermal Analysis and Calorimetry, 2020, vol. 142, p. 37-50. Typ: ADCA
2. KUZIELOVÁ, Eva - ŽEMLIČKA, Matúš - JURIŠOVÁ, Jana - HUDEC, Pavol. Vplyv parametrov hydrotermálneho spracovania na prípravu analcímu. In Prírodné a syntetické zeolity na Slovensku. : zborník príspevkov, 8. odborný seminár, Slovenská spoločnosť priemyselnej chémie pri FCHPT STU, Bratislava, 20.6.2019 [elektronický zdroj]. Recenzenti P. Hudec, V. Jorík, M. Králik, G. Čík. - Bratislava : FCHPT STU Bratislava, 2019, s. 71-82. ISBN 978-80-8208-013-4. Typ: AFD

3. KUZIELOVÁ, Eva - ŽEMLIČKA, Matúš - JURIŠOVÁ, Jana - PALOU, Martin T. Hydrothermal preparation and thermal stability of analcime. In CEEC-TAC5 & Medicta2019. 5th Central and Eastern European Conference on Thermal Analysis and Calorimetry (CEEC-TAC5) and 14th Mediterranean Conference on Calorimetry and Thermal Analysis (Medicta2019) : book of abstracts. - Germany : Central and Eastern European Committee for Thermal Analysis and Calorimetry, 2019, p. 480. ISBN 978-3-940237-59-0. Typ: AFG

2.3.2. Aplikačný typ

Charakteristika pórovej štruktúry: Vedecké vyhodnotenie vytvorenej pórovej štruktúry betónov ak dôležitá súčasť komplexnej materiálovej diagnostiky mostov.

Zodpovedný riešiteľ: Martin T. Palou

Na posúdenie betónovej štruktúry je dôležité analyzovať pórovú štruktúru a priepustnosť konštrukcií za účelom diagnostikovať základné príčiny poškodenia a degradácie betónu, a navrhovať materiálové riešenie. Pomocou metódy ortuťovej pôrozimetrie boli stanovené základné charakteristiky pórovej štruktúry ako sú merný povrch pórov, distribúcia veľkosti pórov, medián a polomer pórov, celková pôrovitosť a koeficient priepustnosti niekoľko poškodených vzoriek betónu. V kombinácii s metódou termickej a röntgenovej analýzy, metód ortuťovej pôrozimetrie poskytuje komplexné podklady na identifikáciu príčiny poškodenia a degradácie betónu, ktorými sú dlhodobé autogénne chemické a fyzikálne procesy ako aj vplyvy vonkajších faktorov.

2.3.3. Medzinárodné vedecké projekty

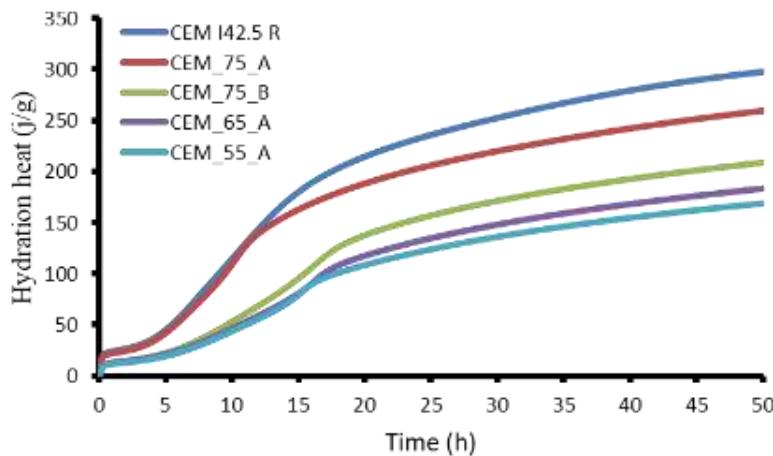
Projekt: MVTS - Visegrad Group (V4)-Korea Joint Research Program On Chemistry and Chemical Engineering “The Effect of Chemical Composition of Concrete on Its Long-term Performance in Irradiated Environment „RADCON“

Optimalizácia zloženia ľažkých betónov na základe izotermickej vodivostnej kalorimetrie

Hydratačné teplo cementu zohráva kľúčovú úlohu pri vzniku a vývoji trhlín v betóne. V štruktúre vznikajú ľahové napäťia v dôsledku veľkých teplotných gradientov medzi jadrom a povrhom betónu, aj následkom rozpínania vlhkého vzduchu v póroch. Použitie cementového spojiva s nízkym hydratačným teplom je obzvlášť dôležité v prípade masívnych stavieb z ľažkého betónu. Zloženie spojiva vhodného na prípravu ľažkého betónu s tieniacimi vlastnosťami proti rádioaktívному žiareniu bolo optimalizované na základe stanovenia hydratačného tepla izotermickou vodivostnou kalorimetriou.

Portlandský cement CEM I 42,5 R bol nahradzany rôznymi prímesami tak, aby hydratačné teplo nepresahovalo 250 J g^{-1} . Na prípravu ľažkých betónov sa použila zmes barytu a magnetitu. Pevnosť v tlaku prevyšovala 45 MPa a objemová hmotnosť dosahovala 3400 až 3500 kg m⁻³. Po objemovej

expanzii, ku ktorej dochádzalo počas prvých 4 h, bolo zaznamenané iba mierne zmrašenie (max. 0.3%). Materiály teda možno charakterizovať ako objemovo stále. Merané a hodnotené boli tiež tepelné vlastnosti pripravených materiálov (koeficient tepelnej vodivosti, merná tepelná kapacita, objemová tepelná kapacita).



Obr. Vývoj hydratačného tepla zmesových cementov

Výstupy

DRAGOMIROVÁ, Janette - PALOU, Martin T. - KUZIELOVÁ, Eva - ŽEMLIČKA, Matúš - NOVOTNÝ, Radoslav - GMÉLING, Katalin. Optimization of cementitious composite for heavyweight concrete preparation using conduction calorimetry. In Journal of Thermal Analysis and Calorimetry, 2020, vol. 142, no. 1, p. 255-266. (2019: 2.731 - IF, Q2 - JCR, 0.415 - SJR, Q3 - SJR). ISSN 1388-6150.

Významné výsledky - iné

Simulácia geotermálneho vrtu pozdĺž celej jeho hĺbky

(APVV-15-0631)

Zodpovedný riešiteľ: Martin T. Palou

V porovnaní s jednoduchšími modelmi simulujúcimi geotermálne vrty len v ich vybraných častiach, viedie navrhnutý model popisujúci celý vrt k spoľahlivým výsledkom. Umožňuje modelovať premenlivosť materiálových charakteristík v závislosti od geologického zloženia okolia vrtu, ako aj teploty okolia; zohľadňuje lokálny výskyt zmeny teploty okolia, resp. nespojitosť v horninách okolia vrtu. Takýto model nám teda umožňuje včleniť do výpočtov s hĺbkou sa meniacu teplotu okolia aj geotermálnej vody, či zmenu tepelnej vodivosti geologického podložia s teplotou. Výpočet je pomerne rýchly a preto možno uskutočniť rôzne varianty výpočtov v pomerne krátkej dobe. Ako konzervatívny model môže viesť k vyšším hodnotám tlakov a napäti a jeho výsledky sú veľmi ovplyvňované voľbou okrajových podmienok modelu.

Výstupy:

Sadovský, Zoltán., Kriváček, Jozef. Influential geometric imperfections in buckling of axially compressed cylindrical shells – A novel approach. Engineering Structures 223 (2020) 111170; doi:10.1016/j.engstruct.2020.111170; Typ: ADC.

2.4. Publikačná činnosť (zoznam je uvedený v prílohe C)

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2020/ doplnky z r. 2019
1. Vedecké monografie a monografické štúdie vydané v domácich vydavateľstvách (AAB, ABB)	0 / 0
2. Vedecké monografie a monografické štúdie vydané v zahraničných vydavateľstvách (AAA, ABA)	1 / 0
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB, CAB)	0 / 0
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA, CAA)	0 / 0
5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD)	0 / 0
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC)	0 / 0
7. Kapitoly v odborných monografiách, vysokoškolských učebničach a učebných textoch vydaných v domácich vydavateľstvách (BBB, ACD)	0 / 0
8. Kapitoly v odborných monografiách, vysokoškolských učebničach a učebných textoch vydaných v zahraničných vydavateľstvách (BBA, ACC)	0 / 0
9. Vedecké práce registrované v Current Contents Connect (ADCA, ADCB, ADDA, ADDB)	33 / 1
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNB)	6 / 1
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	0 / 0
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	0 / 0
13. Vedecké práce v domácich recenzovaných zborníkoch (AEDA)	0 / 0
14. Vedecké práce v zahraničných recenzovaných zborníkoch (AECA)	0 / 0
15. Publikované príspevky na domácich vedeckých konferenciách (AFB, AFD)	3 / 0
16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC)	1 / 0
17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS	0
18. Ostatné vydané periodiká	0
19. Zostavovateľské práce knižného charakteru (FAI)	0 / 0
20. Preklady vedeckých a odborných textov (EAJ)	0 / 0
21. Heslá v odborných terminologických slovníkoch a encyklopédiah (BDA, BDB)	1 / 0
22. Recenzie v časopisoch a zborníkoch (EDI)	0 / 0

Evidujú len tie práce zamestnancov a doktorandov, v ktorých je uvedená afiliácia k organizácii

Tabuľka 2f Štatistika vedeckých prác podľa kvartilu vedeckého časopisu

Kvartil vedeckého časopisu	Q1	Q2	Q3	Q4	Spolu
Podľa IF z r. 2019 (zdroj JCR) <i>Počet článkov / doplnky 2018</i>	22 / 0	7 / 0	2 / 0	2 / 1	33 / 1
Podľa SJR z r. 2019 (zdroj Scimago) <i>Počet článkov / doplnky 2018</i>	22 / 0	6 / 1	7 / 0	3 / 0	38 / 1

Tabuľka 2g Ohlasy

OHLASY	Počet v r. 2019/ doplnky z r. 2018
Citácie vo WOS (1.1, 2.1)	797 / 11
Citácie v SCOPUS (1.2, 2.2)	108 / 0
Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)	0 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1)	1 / 0
Recenzie na práce autorov z organizácie (5, 6, 7, 8)	0 / 0

2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2h Vedecké podujatia

Prednášky a vývesky na medzinárodných vedeckých podujatiach	3
Prednášky a vývesky na národných vedeckých podujatiach	0

2.6. Vyžiadané prednášky

Ak boli príspevky publikované, sú súčasťou prílohy C, kategória (AFC, AFD, AFE, AFF, AFG, AFH)

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

J. Sladek: Modelling of advanced thermoelectric material structures. 2020 Silk Road International Conference on the Cooperation and Integration of Industry, Education, Research and Application of Aeronautics and Astronautics, Xian, December 11, 2020

M. Kocifaj: Calculation methods and models. CIE Online Workshop on the Calculation and Measurement of Obtrusive Lighting, November 12-13 2020, Ostrava, Czech Republic.

2.6.2. Vyžiadané prednášky na národných vedeckých podujatiach

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

Darula, S. Online prednáška na FEKT VUT v Brne

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2020

2.7.1. Vynálezy, na ktoré bol v roku 2020 udelený patent

a) na Slovensku

b) v zahraničí

Pôvodca: Videen Gorden, Kocifaj Miroslav, Klačka Jozef

Číslo patentu: United States Patent and Trademark Office US 10,859,694

Názov vynálezu: Method and apparatus for lightning threat indication
Majiteľ / spolumajiteľ: Ústav stavebníctva a architektúry SAV, Univerzita Komenského v Bratislave, Videen Gorden, Adelphi Maryland, US
Issue date: 8. dec. 2020

2.7.2. Vynálezy prihlásené v roku 2020

a) na Slovensku

1. Eva Kuzielová, Martin T. Palou, Matuš Žemlička; Ústav stavebníctva a architektúry SAV, Bratislava; Patentová prihláška č. PP50038-2020: Čistá kubická forma kryštaličkého analcímu a spôsob jej prípravy
2. Martin T. Palou, Eva Kuzielová, Matuš Žemlička; Ústav stavebníctva a architektúry SAV, Bratislava ; Patentová prihláška č. PP 50053-2020: Cementová zmes na použitie v hydrotermálnych vrtoch pri teplotách medzi 200 a 300 °C

b) v iných krajinách ako prioritná prihláška

c) PCT

d) EP

e) v iných krajinách v rámci tzv. národnej fázy po PCT, resp. po validácii EP

2.7.3. Úžitkové vzory na Slovensku

a) prihlásené v roku 2020

b) udelené v roku 2020

2.7.4. Realizované vynálezy

a) predané patenty resp. prihlášky vynálezov (v prípade úplnej zmeny majiteľa patentu)

b) predané licencie (v prípade že majiteľom ostáva organizácia SAV)

Finančný prínos pre organizáciu SAV v roku 2020 a súčet za predošlé roky sa neuvádzajú, ak je zverejnenie v rozpore so zmluvou súvisiacou s realizáciou patentu.

2.8. Účasť expertov na hodnotení národných projektov (APVV, VEGA a iných)

Tabuľka 2i Experti hodnotiaci národné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Kuzielová Eva	VEGA	2
Ján Sládek	VEGA	1
Vladimír Sládek	VEGA	1
Martin T. Palou	VEGA	1
Peter Matiašovský	VEGA	3

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 0

2.10. Recenzovanie publikácií a príspevkov vo vedeckých časopisoch

Tabuľka 2j Počet recenzovaných monografií, článkov, zborníkov

Meno pracovníka	Knižné monografie		Príspevky v časopisoch			Zborníky	
	Domáce	Zahra-ničné	WoS, SCOPUS	Iné databázy	Ostatné	Domáce	Zahra-ničné
Darula Stanislav	1	0	3	0	2	0	1
Kocifaj Miroslav	0	0	30	0	0	0	5
Kómar Ladislav	0	0	10	0	0	0	0
Kuzielová Eva	0	0	13	0	0	0	0
Matiašovský Peter	0	0	3	0	0	0	0
Palou Martin-Tchingnabé	1	46	48	0	0	0	0
Petržala Jaromír	0	0	2	0	0	0	0
Sátor Ladislav	0	0	3	0	0	0	0
Sládek Ján	0	0	14	0	0	0	2
Sládek Vladimír	0	0	14	1	0	0	1
Spolu	2	46	140	1	2	0	9

2.11. Iné informácie k vedeckej činnosti.

3. Doktorandské štúdium, iná pedagogická činnosť a budovanie ľudských zdrojov pre vedu a techniku

3.1. Údaje o doktorandskom štúdiu

Tabuľka 3a Počet doktorandov v roku 2020

Forma	Počet k 31.12.2020				Počet doktorandov po doktorandskej skúške		Počet ukončených doktorantúr v r. 2020			
							Ukončenie z dôvodov			
	celkový počet		z toho novoprijatí		M	Ž	ukončenie úspešnou obhajobou	predčasné ukončenie	neúspešné ukončenie	
	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž
Denná zo zdrojov SAV	0	2	0	1	0	1	0	0	0	0
Denná z iných zdrojov	0	0	0	0	0	0	0	0	0	0
Externá	0	0	0	0	0	0	0	0	0	0
Spolu	0	2	0	1	0	1	0	0	0	0
Súhrn	2		1		1		0		0	

Uvádzajte len doktorandov organizácie ako externej vzdelávacej inštitúcie.

Riadok „Spolu“ je súčtom troch riadkov nad ním. Každá bunka v „Súhrn“ je súčtom dvoch buniek nad ňou. V stĺpci „Počet doktorandov po doktorandskej skúške“ sa uvádzaj počet doktorandov, ktorí počas roku 2020 boli aspoň 1 deň doktorandami po doktorandskej skúške. Sú čieline zahrnutí aj v predchádzajúcich stĺpoch.

3.2. Zmena formy doktoranského štúdia

Tabuľka 3b Počty preradení z dennej formy na externú a z externej na dennú

Pôvodná forma	Denná z prostriedkov SAV	Denná z prostriedkov SAV	Denná z iných zdrojov	Denná z iných zdrojov	Externá	Externá
Nová forma	Denná z iných zdrojov	Externá	Denná z prostriedkov SAV	Externá	Denná z prostriedkov SAV	Denná z iných zdrojov
Počet	0	0	0	0	0	0

3.3. Zoznam doktorandov, ktorí ukončili doktoranské štúdium úspešnou obhajobou

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2020 úspešnou obhajobou

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnosť
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3.4. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou v nadštandardnej dĺžke štúdia

Tabuľka 3d Menný zoznam ukončených doktorandov v roku 2020 úspešnou obhajobou v nadštandardnej dĺžke štúdia

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnosť

3.5. Uplatnenie absolventov doktoranského štúdia

Tabuľka 3e Prehľad uplatnenia absolventov doktoranského štúdia

Počet absolventov PhD. štúdia v roku 2020 (obhajoba leto 2020)	z toho kol'kí sa zamestnali vo výskume (SAV, univerzity, rezortné výskumné ústavy)	z toho kol'kí sa zamestnali v praxi mimo výskum, kde využívajú svoju kvalifikáciu	z toho kol'kí sa zamestnali v praxi, kde nevyužívajú svoju kvalifikáciu	z toho kol'kí boli nejaký čas nezamestnaní
0	0	0	0	0

Zoznam interných a externých doktorandov je uvedený v prílohe A.

3.6. Medzinárodné doktoranské štúdium

Tabuľka 3f Počet študentov v medzinárodných programoch doktoranského štúdia

Cotutelle	Co-direction	Iné	Zahraniční doktorandi štátne občianstvo/počet
0	0	0	

Zahraniční doktorandi sú doktorandi v dennej alebo externej forme štúdia, ktorí sú občanmi iných krajín.
Doktorandi školení v rámci Cotutelle alebo Co-direction sa do posledného stĺpca nezapočítavajú.

3.7. Zoznam študijných odborov, na ktoré má ústav uzatvorenú rámcovú dohodu, s uvedením VŠ

Tabuľka 3g Zoznam študijných odborov, na ktoré má ústav uzatvorenú rámcovú dohodu, s uvedením univerzity/vyskej školy a fakulty, kde sa doktoranský študijný program uskutočňuje

Názov študijného odboru (ŠO)	Číslo ŠO	Doktoranské štúdium uskutočňované na (univerzita/vysoká škola a fakulta)
stavebníctvo	3659	Slovenská technická univerzita v Bratislave
strojárstvo	2381	Slovenská technická univerzita v Bratislave

Tabuľka 3h Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do odborových komisií pre doktoranské štúdium	Menný prehľad pracovníkov, ktorí pôsobili ako členovia vedeckých rôd univerzít, správnych rôd univerzít a fakúlt	Menný prehľad pracovníkov, ktorí získali vyššiu vedeckú, pedagogickú hodnosť alebo vyšší kvalifikačný stupeň
doc. Ing. Stanislav Darula, CSc. (pozemné stavby)	doc. Ing. Stanislav Darula, CSc. (Stavebná fakulta TUKE)	
Ing. Peter Matiašovský, CSc. (pozemné stavby)	Ing. Peter Matiašovský, CSc. (Slovenská technická univerzita v Bratislave)	
Ing. Peter Matiašovský, CSc. (stavebníctvo)	Ing. Peter Matiašovský, CSc. (Stavebná fakulta STU)	
Prof.Dr.Ing. Martin-Tchingnabé Palou (anorganická technológia a materiály)		
Prof.Dr.Ing. Martin-Tchingnabé Palou (stavebníctvo)		
Prof.Dr.Ing. Martin-Tchingnabé Palou (odbor v zahraničí)		
Prof. Ing. Ján Sládek, DrSc. (aplikovaná mechanika)		
Prof. RNDr. Vladimír Sládek, DrSc. (aplikovaná mechanika)		
Prof. RNDr. Vladimír Sládek, DrSc. (numerická analýza a vedecko-technické výpočty)		

3.8. Údaje o pedagogickej činnosti

Tabuľka 3i Prednášky a cvičenia vedené v roku 2020

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	2	1	0	0
Celkový počet hodín v r. 2020	76	2	0	0

Prehľad prednášateľov predmetov a vedúcich cvičení, s uvedením názvu predmetu, úvazku, katedry, fakulty, univerzity/vysokej školy je uvedený v prílohe D.

Tabuľka 3j Aktivity pracovníkov na VŠ

1.	Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác	1
2.	Počet vedených alebo konzultovaných diplomových a bakalárskych prác	1
3.	Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)	2
4.	Počet školených doktorandov (aj pre iné inštitúcie)	1
5.	Počet oponovaných dizertačných a habilitačných prác	4
6.	Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce	3
7.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác	3
8.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác	5
9.	Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách	2

3.9. Iné dôležité informácie k pedagogickej činnosti

4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2020 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

Thermophysics 2020, Smolenice, 7. 9. - 9. 9. 2020

V dňoch 7 – 9. septembra 2020 ústav organizoval v Kongresovom centre SAV v Smoleniciach medzinárodnú konferenciu Thermophysics 2020, 25. zo série tradičných mítингov, ktoré sa konajú od roku 1996. Program konferencie zahŕňal pozvané prednášky, prezentácie a diskusie na vybrané témy. Poslaním konferencie je diskusia o výsledkoch akademického a priemyselného výskumu a výmena neoceniteľných skúseností v oblasti termofyzikálnych vlastností materiálov. V tomto roku sa podujatia zúčastnilo 24 vedcov a doktorandov zo Slovenska, Českej republiky, Poľska, Švédska, Francúzska, Ukrajiny, Ruska a Indie.

4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2021 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

5th International Conference on Light Pollution Theory, Modelling and Measurements (LPTMM)
Conference date: June 15-18, 2021

Location: TBA, Galacia, Spain

M. Kocifaj, 02/59309293, kocifaj@savba.sk

4.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 4a Programové a organizačné výbory medzinárodných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Matiašovský Peter	0	0	1
Mihálka Peter	0	1	0
Sládek Vladimír	1	0	0
Spolu	1	1	1

4.2. Členstvo a funkcie v medzinárodných orgánoch

4.2.1. Členstvo a funkcie v medzinárodných vedeckých spoločnostiach, úniach a národných komitétoch SR

doc. Ing. Stanislav Darula, CSc.

CIB - International Council for Research and Innovation in Building and Construction (funkcia: W67 - člen)

CIE - Commission Internationale de l' Eclairage (funkcia: Reprezentant SR v CIE Divízii 3)

CIE TC3-39, Discomfort Glare from Daylight in Buildings (funkcia: člen)

IBPSA – the International Building Performance Simulation Associati (funkcia: člen)

TC 3-54: Revision of CIE 16-1970: Daylight (funkcia: člen)

Mgr. Miroslav Kocifaj, PhD.

International Astronomical Union (funkcia: člen)
International Solar Energy Society (ISES) (funkcia: člen {silver member})
Optical Society of America (OSA) (funkcia: člen)
The Illuminating Engineering Society (funkcia: člen Sky Glow Committee)

Ing. Peter Matiašovský, CSc.

CIB - W40 Heat and Moisture Transfer in Buildings (funkcia: člen pracovnej skupiny)

Prof.Dr.Ing. Martin-Tchingnabé Palou

CIB- International Council for Research and Innovation in Building and Construction
(funkcia: Člen)
ICIC International Committee for Irradiated Concrete (funkcia: člen)

Prof. Ing. Ján Sládek, DrSc.

Central European Assoc. for Computational Mechanics (funkcia: člen)
Int. Soc. Comput. Eng. & Sciences (ICCES) (funkcia: člen)

Prof. RNDr. Vladimír Sládek, DrSc.

Central European Assoc. for Computational Mechanics (funkcia: člen)
International Society for Boundary Elements (funkcia: člen)

4.3. Účasť expertov na hodnotení medzinárodných projektov (EÚ RP, ESF a iných)

Tabuľka 4b Experti hodnotiaci medzinárodné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
-----------------	-----------------------------	-----------------------------

4.4. Najvýznamnejšie prínosy MVTS ústavu vyplývajúce z mobility a riešenia medzinárodných projektov a iné informácie k medzinárodnej vedeckej spolupráci

Účasť ÚSTARCH na medzinárodnom projekte MVTS - Visegrad Group (V4)-Korea Joint Research Program on Chemistry and Chemical Engineering “The Effect of Chemical Composition of Concrete on Its Long-term Performance in Irradiated Environment „RADCON“

Napriek pandémii COVID-19 jednotlivé pracovné skupiny aktívne pokračovali v riešení projektu, vzájomných konzultáciách a účasti na virtuálnom medzinárodnom workshope (ICIC Virtual Workshop on Meso-Scale Modelling of Concrete, on 18th November 2020). V spolupráci s našimi partnermi z Maďarska (Hungarian Academy of Sciences, MTA Centre for Energy Research) a z Južnej Kórei (Yonsei University) boli publikované dve práce v kategórii ADCA a jedna práca je v kategórii ADM prijatá na publikovanie.

1. DRAGOMIROVÁ, Janette - PALOU, Martin T. - KUZIELOVÁ, Eva - ŽEMLIČKA, Matúš - NOVOTNÝ, Radoslav - GMÉLING, Katalin. Optimization of cementitious composite for heavyweight concrete preparation using conduction calorimetry. In Journal of Thermal

- Analysis and Calorimetry, 2020, vol. 142, no. 1, p. 255-266. (2019: 2.731 - IF, Q2 - JCR, 0.415 - SJR, Q3 - SJR). ISSN 1388-6150, Typ: ADCA
2. U, Minkwan - JEONG, Jae-Gwon - PALOU, Martin T. - PARK, Kyoungsoo. Mechanical Behavior of Fine Recycled Concrete Aggregate Concrete with the Mineral Admixtures. In Materials, 2020, vol. 13, art. no. 2264. (2019: 3.057 - IF, Q2 - JCR, 0.647 - SJR, Q2 - SJR). ISSN 1996-1944. Typ: ADCA
 3. Janette DRAGOMIROVÁ, Martin T. PALOU, Katalin GMÉLING, Veronika SZILÁGYI, Ildikó HARSÁNYI, László SZENTMIKLÓSI. Experimental study of selected properties of heavyweight concrete based on analysis of chemical composition and radioactive elements of its components, scientific.net. Accepted Type ADM

Prehľad údajov o medzinárodnej mobilite pracovníkov organizácie je uvedený v Prílohe E.

Prehľad a údaje o medzinárodných projektoch sú uvedené v kapitole 2 a Prílohe B.

5. Koncepcia dlhodobého rozvoja organizácie

5.1. Odporúčania z posledného pravidelného hodnotenia organizácií SAV (akreditácie)

- Bez dôrazného vývoja v strategickom plánovaní a riadení je ľažké pochopiť ako ústav (v jeho štruktúre) môže byť považovaný za udržateľný.
- Opisaná činnosť ústavu je skôr vedeckým výskumom, než skutočne súvisiaca so stavebníctvom. Musia byť zlepšené procesy identifikujúce línie výskumu, vrátane autoritatívneho vonkajšieho poradenstva.
- Ústav by mal viac hľadieť navonok, v zmysle jeho väzieb na stavebný priemysel a jeho viditeľnosť pri interakcii s medzinárodnou výskumnou komunitou v relevantných tematických oblastiach.
- Ak je daná jasná stratégia, tá by mala priťahovať viac PhD študentov, ako aj podnecovať súčasných zamestnancov k spolupráci s univerzitami, s cieľom zabezpečiť viac kandidátov na doktorát, prinášajúc viac vitálnosti. Zamestnanci by mali stále hľadať cesty po ktorých by ich výskum mohol viesť mimo produkciu článkov.

5.2. Hlavné body Akčného plánu organizácie a stav ich plnenia

V reakcii na odporúčania z poslednej akreditácie deklarujeme, že Akčný plán ústavu je založený na skutočnosti, že organizácia je pracoviskom základného, nie aplikovaného výskumu. Jej súčasná štruktúra je výsledkom vývoja daného špecifickými potrebami stavebného výskumu ako celku, konkrétnie v oblasti aplikovanej mechaniky, stavebnej fyziky a materiálového inžinierstva:

- Ústav je vedeckým pracoviskom so slobodou bádania s vysokou mierou interdisciplinarity (zdôrazňovanou aj riadiacimi orgánmi SAV) s výskumom zameraným na progresívne témy, ktoré sú ľažiskové v celosvetovom meradle. Dosiahnuté výsledky sú používané v aplikovanom výskume a praxi a výrazne zvyšujú kredit ústavu a zviditeľňujú jeho postavenie v rámci vedeckých a výskumných pracovísk.
- Ústav je pracoviskom základného výskumu so širokým spektrom medzinárodných spoluprác postavených práve na platforme vedeckého bádania. Zapojenie sa do výskumných projektov a publikovanie výsledkov v impaktovaných časopisoch po recenzii medzinárodnými expertami sú všetkými vedeckými autoritami považované za jednoznačne reprezentatívny ukazovateľ kvality realizovaného výskumu a jeho užitočnosti.

Akčný plán ústavu je nástrojom realizácie strategických cieľov ústavu, ktorými sú:

progresívne témy výskumu

- Vývoj pokročilých multiškálových kontinuálnych matematicko-fyzikálnych modelov, potrebných pre popis kompozitov s nanokonštituentmi.
- Vývoj pokročilých anorganických spojív založených na mnohozložkových cementoch obsahujúcich prímesi, geopolymérov a fosfátových keramických spojív.
- Výskum mechanizmu akým kumulatívne svetelné emisie z mnohých zdrojov ovplyvňujú jas nočnej oblohy je celkom novou tému v stavebnej fyzike a urbanizme.
- Inovatívne riešenia tepelnej regulácie povrchových vrstiev netransparentných vonkajších

konštrukcií budov.

Plnenie: V rámci projektov APVV, MO SR a VEGA a zabezpečenia podmienok ich realizácie v dlhodobom časovom horizonte.

- *Internacionalizácia - zlepšovanie postavenia v európskom výskumnom priestore*

Plnenie: Po formálnej aj neformálnej stránke ústav aktívne spolupracuje s mnohými zahraničnými pracoviskami. Vedenie ústavu plne podporuje úsilie o publikovanie vedeckých výsledkov v renomovaných zahraničných periodikách a vydavateľstvách s prihliadnutím na impakt faktor daného periodika a zaradenie do kvartílu s najvyšším hodnotením (Q1). Z 33 CC publikácií má ústav tento rok 22 v Q1 a 7 v Q2. Teda asi 90% všetkých publikácií je v top časopisoch. Ústav organizoval medzinárodnú konferenciu Thermophysics 2020. Bola podpísaná dohoda o spolupráci s Jakutským vedeckým centrom sibírskej pobočky Ruskej akadémie vied. Riešiteľská kapacita pracoviska sa zvýšila..

- *Rozšírenie možností domácej spolupráce vo výskume*

Plnenie: Podávanie žiadostí o národné projekty je podriadené analýze a optimalizácii aktivít pri podávaní návrhov projektov VEGA, APVV a ďalších (MVTs, MO SR), žiadatelia z ústavu sú v získavaní národných projektov dlhodobo úspešní. Spoluriešiteľmi projektov sú univerzity. Boli podané návrhy výskumných projektov v spolupráci s univerzitnými pracoviskami.

- *Aplikácie – popularizácia – publicita*

Plnenie: Tvoriví pracovníci ústavu priebežne popularizujú výsledky svojho výskumu formou článkov na internete. V hodnotenom období bola zintenzívnená popularizácia najmä formou pružnejšej aktualizácie webovej stránky ústavu, aktívneho zapojenia sa do Týždňa vedy a techniky.

- *Vyhodnocovanie kvality výstupov výskumu. Kariérny rast post doktorandov a výskumníkov*

Plnenie: Každoročne sú posudzované výsledky práce vedeckých pracovníkov s dôrazom na publikovanie v periodikách zaradených v hodnotení Q1 a Q2, zároveň sa vykonávajú každoročne, prípadne podľa potreby atestačné konania pre posudzovanie predĺženia pracovných zmlúv a pre posudzovanie žiadostí o preradenie vedeckých pracovníkov do vyššieho kvalifikačného stupňa. Bolo dosiahnuté zvýšenie rovnomernosti rozdelenia kvality výsledkov vedeckých pracovníkov, individuálne i medzi odbormi. Bolo aktualizované zloženie atestačnej komisie ústavu. V hodnotenom roku bol preradený ďalší vedecký pracovník do kvalifikačného stupňa IIa. Jeden pracovník podáva DrSc prácu. Viacerí mladí vedeckí pracovníci boli zapojení do aktivít v ústavných poradných orgánoch a v komisií VEGA.

- *Vzdelávanie – doktorandské štúdium*

Plnenie: Pre skvalitnenie doktoranského štúdia bol analyzovaný súčasný stav a využívanie aktuálnych možností. Boli prehodnotené študijné programy a ponúkané témy dizertačných prác. Pravidelné hodnotenie doktorandov prebieha na základe vnútorného systému kvality doktoranského štúdia, v súlade so študijnými plánmi. Bol prijatý jeden nový doktorand. Ústav má dvoch garantov doktoranského štúdia v programoch stavebnictvo a strojárstvo.

- *Nakladanie s duševným vlastníctvom*

Plnenie: Priebežne sa hľadajú efektívne riešenia nakladania s duševným vlastníctvom, osobitne predaja licencií a patentov. Venovala sa pozornosť uplatňovaniu výsledkov výskumu a zariadení v spoločenskej praxi. Bol schválený patent v USA.

- *Manažment*

Plnenie: Je nadľaď otvorená téma integrácie ústavu s inými technickými ústavmi SAV. Bol znížený podiel pracovníkov so stredoškolským vzdelaním. Zároveň boli zamestnaní jeden domáci a tria zahraniční noví vedeckí pracovníci.

- *Infraštruktúra*

Plnenie: Laboratóriá ústavu boli združené do jedného celku. Prioritou je ich využívanie v rámci vedeckých projektov. Špecializované prístrojové vybavenie je prístupné partnerským organizáciám SAV a univerzitám, ako aj pre využitie v praxi.

Vedenie a vedecká rada ústavu kontrolujú plnenie akčného plánu priebežne a o výsledkoch práce ústavu sú zamestnanci každoročne informovaní na výročných schôdzach ústavu.

Členmi Medzinárodného poradného výboru Ústavu stavebníctva a architektúry SAV sú:
doc. Zoltán Kolláth, DSc., Eotvos Loránd University, Szombathely,
prof. Ing. Robert Černý, DrSc., České vysoké učení technické v Praze,
Dr. Arnon Chaipanich, Ass. prof., Chiang Mai University.

5.3. Aktualizácia Akčného plánu organizácie v roku 2020

V rámci Akčného plánu sa ústav sústredí okrem uvedených bodov aj na nasledovné akcie:

- Aktívne pokračovať v hľadaní kvalifikovaných vedeckých pracovníkov doma i v zahraničí.
- Priebežne aktualizovať webovú stránku ústavu v anglickom a tiež slovenskom jazyku.
- Dokončiť vypracovanie kompaktných verzií výročných správ ústavu v anglickom jazyku.
- Pokračovať v hľadaní riešení pre predaj licencií/patentov v rézii ústavu.
- Propagácia výsledkov ústavu a špičkových pracovníkov na vedeckých sociálnych sieťach.
- Popularizácie výsledkov na internete.
- Priebežná aktualizácia kritérií hodnotenia tvorivých pracovníkov v súlade s kritériami výkonového financovania vedeckých pracovísk SAV.
- Hľadanie konsenzu v zmene názvu ústavu - súčasný názov má domáce i medzinárodné renomé.
- Organizovanie medzinárodnej konferencie 5th Central European Symposium on Building Physics 2022.

6. Spolupráca s univerzitami/vysokými školami a inými subjektmi v oblasti vedy a techniky, okrem aktivít uvedených v kap. 2, 3, 4

6.1. Spoločné pracoviská organizácie

6.1.1. Spolupráca s univerzitami/VŠ (fakultami)

Pozn.: uvádzajte len tie spolupráce, na ktoré má organizácia zmluvu resp. memorandum o zriadení spoločného pracoviska, resp. o vzájomnej spolupráci v konkrétnej oblasti výskumu

6.1.2. Spoločné pracoviská s inými organizáciami SAV

Pozn.: uvádzajte len tie spolupráce, na ktoré má organizácia zmluvu resp. memorandum o zriadení spoločného pracoviska, resp. o vzájomnej spolupráci v konkrétnej oblasti výskumu

6.2. Spoločné pracoviská organizácie s inými inštitúciami mimo SAV a VŠ

Pozn.: uvádzajte len tie spolupráce, na ktoré má organizácia zmluvu resp. memorandum o zriadení spoločného pracoviska, resp. o vzájomnej spolupráci v konkrétnej oblasti výskumu

6.3. Spoločné projekty s univerzitami a ostatnými inštitúciami mimo SAV

Názov projektu: Globálna charakterizácia svetelného znečistenia

Agentúra a číslo projektu: APVV-18-0014

Spolupracujúce inštitúcie: Fakulta matematiky, fyziky a informatiky UK

Koordinátor projektu: Miroslav Kocifaj

Obdobie riešenia: 1.7.2019-30.6.2023

Názov projektu: Difúzne svetlo v mestskom prostredí: nový model zohľadňujúci vlastnosti lokálnej atmosféry

Agentúra a číslo projektu: VEGA 2/0010/20

Spolupracujúce inštitúcie: Fakulta matematiky, fyziky a informatiky UK

Koordinátor projektu: Miroslav Kocifaj

Obdobie riešenia: 1.1.2020-31.12.2023

Agentúra a číslo projektu: VEGA 2/0017/20

Spolupracujúce inštitúcie: SvF TU Košice

Koordinátor projektu: Stanislav Darula

Začiatok spolupráce: 1. 1. 2020 – 31. 12. 2022

Pozn.: uviesť konkrétné spoločné aj bilaterálne projekty na základe platnej zmluvy o spolupráci

6.4. Iné typy spoločných aktivít s inštitúciami mimo SAV

Projekt ministerstva obrany Slovenskej republiky: Nežiadúci a cielený rezonančný útlm mikrovlnných komunikačných liniek

Kód projektu: SEMOD-74-2/2019

Koordinátor projektu: Miroslav Kocifaj

Obdobie riešenia: 1.4.2019-30.6.2021

7. Aplikácia výsledkov výskumu v spoločenskej a hospodárskej praxi

7.1. Výsledky výskumu organizácie aplikované v praxi

7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

7.3. Iné formy aplikácie výsledkov výskumu v spoločenskej a hospodárskej praxi

8. Aktivity pre Národnú radu SR, vládu SR, ústredné orgány štátnej správy SR a iné organizácie

8.1. Členstvo v poradných zboroch vlády SR, Národnej rady SR, ministerstiev SR, orgánoch EÚ, EP, NATO a pod.

Tabuľka 8a Členstvo v poradných zboroch Národnej rady SR, vlády SR, ministerstiev SR, orgánoch EÚ, EP, NATO a pod.

Meno pracovníka	Názov orgánu	Funkcia
Ing. Matúš Žemlička, PhD.	TK č. 5 Betónové konštrukcie / SK č. 2 Výroba, skúšanie betónu a zhotovovanie betónových konštrukcií; Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky	člen TK5/SK2
Prof. RNDr. Ján Sládek, DrSc.	Ministerstvo školstva	SKVH

8.2. Expertízna činnosť a iné služby pre štátnu správu a samosprávy

Názov expertízy: TK 108 Svetlo a osvetlenie

Adresát expertízy: Úrad pre normalizáciu, metrológiu a skúšobníctvo SR

Spracoval: doc. Ing. Stanislav Darula, CSc.

Stručný opis: predsedu komisie, expertízna a normalizačno technická činnosť

Názov expertízy: PS 714 Revízia STN 73 4301 Budovy na bývanie

Adresát expertízy: Úrad pre normalizáciu, metrológiu a skúšobníctvo SR

Spracoval: doc. Ing. Stanislav Darula, CSc.

Stručný opis: člen, riešiteľ pracovnej skupiny

8.3. Členstvo v radách štátnych programov a podprogramov ŠPVV a ŠO

Tabuľka 8b Členstvo v radách štátnych programov a podprogramov ŠPVV a ŠO

Meno pracovníka	Názov orgánu	Funkcia

8.4. Prehľad aktuálnych spoločenských problémov, ktoré riešilo pracovisko v spolupráci s Kanceláriou prezidenta SR, s vládnymi a parlamentnými orgánmi alebo pre ich potrebu

9. Vedecko-organizačné a popularizačné aktivity

9.1. Vedecko-popularizačná činnosť

Tabuľka 9a Súhrnné počty vedecko-popularizačných činností organizácie SAV

Typ	Počet	Typ	Počet	Typ	Počet
prednášky/besedy	3	tlač	1	TV	0
rozhlas	0	internet	5	exkurzie	0
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	0				

9.2. Vedecko-organizačná činnosť

Tabuľka 9b Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov

9.3. Účasť na výstavách

9.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 9c Programové a organizačné výbory národných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Spolu			

9.5. Členstvo v redakčných radách časopisov

Mgr. Miroslav Kocifaj, PhD.

Journal of Quantitative Spectroscopy & Radiative Transfer (funkcia: Guest Editor)
Remote Sensing (funkcia: Editor (Urban remote sensing))

doc. Ing. Stanislav Darula, CSc.

Light and Engineering (funkcia: člen redakčnej rady)
Lighting Research and Technology (funkcia: člen redakčnej rady)
VTS News (funkcia: člen redakčnej rady)

Prof.Dr.Ing. Martin-Tchingnabé Palou

Ceramics-Silikaty (funkcia: Editorial Board)
Journal of Thermal Analysis and Calorimetry (funkcia: Editorial Board)

Prof. Ing. Ján Sládek, DrSc.

CMES-Computer Modeling in Engineering &Sciences (funkcia: editor {Corresponding editor})
Electronic Jour. Boundary Elements (funkcia: člen)
Jour. Computational and Applied Mechanics (funkcia: člen)
Journal of Multiscale Modelling (funkcia: člen)

SDHM-Structural Durability and Health Monitoring Journal (funkcia: člen)
Strojnícky časopis (funkcia: člen)

Prof. RNDr. Vladimír Sládek, DrSc.

Communications in Numerical Analysis (funkcia: člen redakčnej rady)
Composites Part C (funkcia: člen redakčnej rady)
Int. Jour. Engineering Analysis with Boundary Elements (funkcia: Editor)
Journal of Industrial Mathematics and Computational Mechanics (funkcia: člen redakčnej rady)
Newsletter of the Int. Soc. of Boundary Element Methods (funkcia: člen redakčnej rady)
Series Advances in Boundary Elements (funkcia: člen edičnej rady)

9.6. Činnosť v domácich vedeckých spoločnostiach

doc. Ing. Stanislav Darula, CSc.

SNK CIE (funkcia: člen predsedníctva, vedecký tajomník)
SSTP - Slovenská spoločnosť pre techniku prostredia (funkcia: člen)
SSTS-Slovenská svetelnotechnická spoločnosť (funkcia: člen predsedníctva)
ZSVTS (funkcia: člen Rady)

Mgr. Miroslav Kocifaj, PhD.

CIE Div5, TC 5-28 (funkcia: člen)
Slovenská astronomická spoločnosť (funkcia: člen)

Ing. Eva Kuzielová, PhD.

VEGA (funkcia: posudzovateľ)

Ing. Peter Matiašovský, CSc.

Slovenská bioklimatologická spoločnosť pri SAV (funkcia: člen)
Slovenská fyzikálna spoločnosť pri SAV (funkcia: člen)
Slovenská spoločnosť pre techniku prostredia (funkcia: člen)
Zväz slovenských vedeckotechnických spoločností (funkcia: Auditor EUR-ACE akreditačného centra ZSVTS)

Prof.Dr.Ing. Martin-Tchingnabé Palou

CO-SM Qualiform s.r.o. (funkcia: člen)

Ing. Ladislav Sátor, PhD.

Slovenská spoločnosť pre mechaniku (funkcia: člen)

Prof. Ing. Ján Sládek, DrSc.

Slovenska spolocnosť pre mechaniku (funkcia: člen)

Prof. RNDr. Vladimír Sládek, DrSc.

Slovenská spoločnosť pre mechaniku (funkcia: člen hlav. výboru)

9.7. Iné dôležité informácie o vedecko-organizačných a popularizačných aktivitách

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu	89726
z toho	knihy a zviazané periodiká
	audiovizuálne dokumenty
	elektronické dokumenty (vrátane digitálnych)
	mikroformy
	iné špeciálne dokumenty - dizertácie, výskumné správy
	10185
	Rukopisy, vzácné tlače
Počet titulov dochádzajúcich periodík	2
z toho zahraničné periodiká	2
Ročný prírastok knižničných jednotiek	14
v tom	kúpou
	darom
	výmenou
	bezodplatným prevodom
	náhradou
Úbytky knižničných jednotiek	
Knižničné jednotky spracované automatizovane	

Výraz „v tom“ označuje úplné (vyčerpávajúce) údaje, ktorých súčet sa musí rovnatiť údaju v riadku „spolu“, čiže nadradenému riadku.

Výraz „z toho“ označuje neúplné (výberové) údaje, ktorých súčet sa nemusí rovnatiť údaju v riadku „spolu“.

10.2. Výpožičky a služby

Tabuľka 10b Výpožičky a služby

Výpožičky spolu (riadok 1)	183
v tom z r. 1	prezenčné výpožičky
	absenčné výpožičky
v tom z r. 1	odborná literatúra pre dospelých
	výpožičky periodík
MVS iným knižniciam	3
MVS z iných knižníc	9
MMVS iným knižniciam	
MMVS z iných knižníc	
Počet vypracovaných bibliografií	
Počet vypracovaných rešerší	

10.3. Používatelia

Tabuľka 10c Používatelia

Registrovaní používatelia	40
Návštevníci knižnice spolu (bez návštevníkov podujatí)	58

10.4. Iné údaje

Tabuľka 10d Iné údaje

On-line katalóg knižnice na internete (1=áno, 0=nie)	0
Náklady na nákup knižničného fondu v €	980,59

10.5. Iné informácie o knižničnej činnosti

11. Aktivity v orgánoch SAV

11.1. Členstvo vo Výbore Snemu SAV

11.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

11.3. Členstvo vo vedeckých kolégiách SAV

Ing. Peter Matiašovský, CSc.

- VK SAV pre elektroniku, materiálový výskum a technológie (člen)

11.4. Členstvo v komisiach SAV

Ing. Peter Matiašovský, CSc.

- Komisia SAV pre rovnosť príležitostí (člen)

Prof. Ing. Ján Sládek, DrSc.

- Komisia SAV pre posudzovanie vedeckej kvalifikácie zamestnancov (člen)

11.5. Členstvo v orgánoch VEGA

Mgr. Miroslav Kocifaj, PhD.

- komisia č. 6 pre stavebné inžinierstvo (stavebníctvo, dopravu a geodéziu) a environmentálne inžinierstvo vrátane baníctva, hutníctva a vodohospodárskych vied (člen)

Ing. Peter Matiašovský, CSc.

- Komisia VEGA pre stavebné inžinierstvo (stavebníctvo, dopravu a geodéziu) a environmentálne inžinierstvo vrátane baníctva, hutníctva a vodohospodárskych vied (člen)

Prof.Dr.Ing. Martin-Tchingnabé Palou

- Komisia VEGA pre stavebné inžinierstvo (stavebníctvo, dopravu a geodéziu) a environmentálne inžinierstvo vrátane baníctva, hutníctva a vodohospodárskych vied (Predseda komisie)

Prof. RNDr. Vladimír Sládek, DrSc.

- komisia č.6 pre stavebné inžinierstvo (stavebníctvo, dopravu a geodéziu) a environmentálne inžinierstvo vrátane baníctva a vodohospodárskych vied (člen)

12. Hospodárenie organizácie

12.1. Výdavky organizácie

Tabuľka 12a Výdavky organizácie (skutočnosť k 31. 12. 2020 v €)

Typ organizácie (RO,PO)		Zdroje, z ktorých sa kryli jednotlivé výdavky			
Výdavky	Spolu	kapitola SAV (111)	iné štátne a verejné zdroje	ostatné zdroje	% krytie z kapitoly SAV
1. Bežné výdavky					
z toho: mzdy (610)	1367900	1052516	300885	14499	
vedecká výchova štipendiá (640)	872246	722644	147696	1906	
poistné a príspevok do poist'ovní (620)	9006	9006	0	0	
tovary a služby (630)	271879	223179	47078	1622	
transfery partnerom projektov (640)	186721	88146	87803	10773	
2. Kapitálové výdavky					
z toho: obstarávanie kapitálových aktív	0	0	0	0	
kapitálové transfery	18308	0	18308	0	
	0	0	0	0	
	0	0	0	0	

12.2. Zdroje financovania organizácie

Tabuľka 12b Zdroje financovania organizácie (skutočnosť k 31. 12. 2020 v €)

Typ organizácie (RO,PO)		Z toho kategórie			
Zdroje	Spolu	Kapitálové zdroje	zdroje na mzdy (610)	zdroje na odvody do poist'ovní (620)	zdroje na transfery partnero m projektov
1. kapitola SAV (111)					
z toho: VEGA	1052516	0	722644	233179	0
MVTS výskumné projekty	37043	0	0	0	0
MVTS podpora	1129	0	0	0	0
SASPRO/MOREPRO	0	0	0	0	0
Vydávanie časopisov	0	0	0	0	0

Vedecká výchova (štipendiá)	9006	0	0	0	0
OTAS (630)	0	0	0	0	0
2. ŠF EÚ vr. fin. zo ŠR	0	0	0	0	0
3. medzinárodné grantové projekty	0	0	0	0	0
z toho: H2020	0	0	0	0	0
4. iné štátne a verejné zdroje (spolu)	319362	0	147696	47078	18308
z toho: APVV	273918	0	124895	38323	18308
podpora z kapitoly MŠVVaŠ SR (stimuly)	0	0	0	0	0
5. ostatné zdroje	130805	0	1906	1622	0
z toho: príjmy z prenájmu	59185	0	0	0	0
príjmy z podnikateľskej činnosti	0	0	0	0	0
príjmy z expertnej činnosti a služieb	71619	0	1906	1622	0

13. Nadácie a fondy pri organizácii SAV

14. Iné významné činnosti organizácie SAV

15. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2020

15.1. Domáce ocenenia

15.1.1. Ocenenia SAV

Kocifaj Miroslav

Špičková publikácia SAV (Nature index)

Oceňovateľ: Predsedníctvo SAV

Opis: Publikácia v PNAS, 2019, vol. 116, No. 16, p. 7712-7717

15.1.2. Iné domáce ocenenia

15.2. Medzinárodné ocenenia

16. Poskytovanie informácií v súlade so zákonom č. 211/2000 Z. z. o slobodnom prístupe k informáciám v znení neskorších predpisov (Zákon o slobode informácií)

17. Problémy a podnety pre činnosť SAV

Správu o činnosti organizácie SAV spracoval(i): RNDr., Ladislav Kómar, PhD.

Vedecká rada ústavu schválila Správu o činnosti dňa 22.1.2021.

Riaditeľ organizácie SAV

.....
Ing. Peter Matiašovský, CSc.

Predseda vedeckej rady

.....
Mgr. Miroslav Kocifaj, PhD.

Prílohy

Príloha A

Zoznam zamestnancov a doktorandov organizácie k 31.12.2020

Zoznam zamestnancov podľa štruktúry

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	Mgr. Olha Hrytsyna, DrSc.	100	1.00
2.	Prof. Ing. Ján Sládek, DrSc.	100	1.00
3.	Prof. RNDr. Vladimír Sládek, DrSc.	100	1.00
Vedúci vedeckí pracovníci CSc., PhD.			
Samostatní vedeckí pracovníci			
1.	doc. Ing. Stanislav Darula, CSc.	100	1.00
2.	Dr. Tong Kai Pong	100	0.27
3.	Mgr. Miroslav Kocifaj, PhD.	100	1.00
4.	RNDr. Ladislav Kómar, PhD.	100	1.00
5.	Ing. Eva Kuzielová, PhD.	100	1.00
6.	Ing. Peter Matiašovský, CSc.	100	1.00
7.	Prof.Dr.Ing. Martin-Tchingnabé Palou	100	1.00
8.	Prof. Wen Pihua	50	0.45
9.	Ing. Tomáš Profant, Doc.,PhD.	50	0.50
Vedeckí pracovníci			
1.	Ing. Peter Mihálka, PhD.,	50	0.50
2.	Mgr. Jaromír Petržala, PhD.	100	1.00
3.	Ing. Miroslav Repka, PhD.	100	1.00
4.	Ing. Ladislav Sátor, PhD.	100	1.00
5.	Ing. Michal Slaný, PhD.	50	0.25
6.	Ing. Matúš Žemlička, PhD.	100	1.00
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Ing. Jana Čepčianska	30	0.10
2.	Ing. Janette Dragomirová	30	0.15
3.	Mgr. Stanislav Fecko	50	0.50
4.	Ing. Marián Vrabec	100	1.00
5.	Mgr. Stefan Wallner	50	0.50

Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	RNDr. Anna Kocifajová	100	1.00
2.	Mgr. Renata Miklošová	100	0.10
3.	Ing. Katarína Mocková	100	1.00
4.	Mgr. Dagmar Práznovská	80	0.80
5.	Ing. Danka Sitarčíková	80	0.80

Odborní pracovníci ÚSV			
1.	Iveta Boříková	100	1.00
2.	Sylvia Bučičová	100	1.00
3.	Martin Habovštiak	100	1.00
4.	Katarína Jakubove	100	0.25
5.	Roman Kralovič	100	1.00
6.	Anna Rajnochová	100	1.00
7.	Dagmar Slámová	100	1.00

Ostatní pracovníci			
1.	Eva Janotová	80	0.80
2.	Karol Kasák	100	1.00
3.	Jozef Kováč	80	0.40
4.	Rudolf Maninka	100	1.00
5.	Lucia Pinkavová	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	Dátum odchodu	Ročný prepočítaný úväzok
Samostatní vedeckí pracovníci			
1.	Mgr. Hector Antonio Solano.L., PhD.	9.4.2020	0.20
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Ing. Mária Považancová	31.7.2020	1.00
Odborní pracovníci ÚSV			
1.	Olga Adamcová	31.5.2020	1.00
Ostatní pracovníci			
1.	Veronika Kovárová	31.8.2020	0.00
2.	Ladislav Prikler	6.3.2020	0.20

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hradení z prostriedkov SAV			
1.	Ing. Janette Dragomirová	Slovenská technická univerzita v Bratislave	3659 - stavebníctvo
2.	Ing. Jana Čepčianská	Slovenská technická univerzita v Bratislave	3659 - stavebníctvo
Interní doktorandi hradení z iných zdrojov			
<i>organizácia nemá interných doktorandov hradených z iných zdrojov</i>			
Externí doktorandi			
<i>organizácia nemá externých doktorandov</i>			

Zoznam zamestnancov prijatých do jedného roka od získania PhD.

	Meno s titulmi	Dátum obhajoby	Dátum prijatia	Úvazok (v %)

Zoznam emeritných vedeckých zamestnancov

Príloha B

Projekty riešené v organizácii

Medzinárodné projekty

Programy: UNESCO

1.) SkyMe APP (*SkyMeAPP*)

Zodpovedný riešiteľ:	Miroslav Kocifaj
Trvanie projektu:	8.11.2017 /
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	nie
Koordinátor:	CENTROMET Consortium, National Council of Science and Technology
Počet spoluriešiteľských inštitúcií:	5 - Španielsko: 1, Mexiko: 2, Slovensko: 2
Čerpané financie:	-

Dosiahnuté výsledky:

Programy: IEA

2.) Integrované riešenia pre denné a umelé osvetlenie (*Integrated Solutions for daylighting and electric lighting*)

Zodpovedný riešiteľ:	Stanislav Darula
Trvanie projektu:	1.1.2018 / 30.6.2021
Evidenčné číslo projektu:	IEA SHC Task 61
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Fraunhofer Institute of Building Physics
Počet spoluriešiteľských inštitúcií:	16 - Austrália: 1, Rakúsko: 1, Belgicko: 1, Brazília: 1, Nemecko: 2, Dánsko: 1, Švajčiarsko: 1, Čína: 1, Taliansko: 1, Japonsko: 1, Holandsko: 1, Nórsko: 1, Poľsko: 1, Švédsko: 1, USA: 1
Čerpané financie:	-

Dosiahnuté výsledky:

Programy: Multilaterálne - iné

3.) Vplyv chemického zloženia betónu na jeho dlhodobú trvanlivosť v (ionizujúcom) ionizovanom prostredí (*The Effect of Chemical Composition of Concrete on Its Long-term Performance in Irradiated Environment*)

Zodpovedný riešiteľ:	Martin-Tchingnabé Palou
Zodpovedný riešiteľ v organizácii SAV:	Martin-Tchingnabé Palou
Trvanie projektu:	1.10.2017 / 30.9.2020

Evidenčné číslo projektu:

Organizácia je nie

koordinátorom projektu:

Koordinátor: Kyoungsoo Park

**Počet spoluriešiteľských
inštitúcií:** 9 - Česko: 2, Maďarsko: 2, Kórejská republika: 3, Poľsko: 2

Čerpané finančie: -

Dosiahnuté výsledky:

MVTS - Visegrad Group (V4)-Korea Joint Research Program On Chemistry and Chemical Engineering "Vplyv chemického zloženia betónu na jeho dlhodobú trvanlivosť v (ionizujúcom) ionizovanom prostredí, RADCON"

Jednotlivé úlohy, ktoré boli zvolené v roku 2020 na dosiahnuté vytýčených cieľov projektu:

Významný výsledky

Optimalizácia zloženia t'ažkých betónov na základe izotermickej vodivostnej kalorimetrie

Hydratačné teplo cementu zohráva kl'účovú úlohu pri vzniku a rozvoji trhlín v betóne. V štruktúre vznikajú t'ahové napäťia v dôsledku veľkých teplotných gradientov medzi jadrom a povrchom betónu a rozpínania vlhkého vzduchu v pôroch. Použitie cementového spojiva s nízkym hydratačným teplom je obzvlášť dôležité v prípade masívnych stavieb z t'ažkého betónu určených pre atómové elektrárne. Zloženie spojiva vhodného na prípravu t'ažkého betónu s tieniacimi vlastnosťami proti rádioaktívnomu žiareniu bolo optimalizované na základe výsledkov laboratórnych skúšok o vývoji uvoľňovania hydratačného tepla pomocou izotermickej vodivostnej kalorimetrie.

Portlandský cement CEM I 42,5 R bol v rôznom množstve nahradený rôznymi prímesami (granulovanou vysokopevnou troskou, metakaolínom, kremičitým úletom, resp. vápencom) tak, aby hydratačné teplo nepresahovalo 250 J g^{-1} . Na prípravu t'ažkých betónov sa použila zmes dvoch agregátov s vysokou hustotou: barytu a magnetitu. Pevnosť v tlaku pripravených materiálov presahovala 45 MPa a ich objemová hmotnosť sa pohybovala v rozmedzí $3400 \text{ až } 3500 \text{ kg m}^{-3}$. Po objemovej expanzii, ku ktorej dochádzalo počas prvých 4 h, bolo zaznamenané iba mierne zmrašenie (max. 0.3%). Materiály teda možno charakterizovať ako objemovo stále. Merané a hodnotené boli tiež tepelné vlastnosti pripravených materiálov (koeficient tepelnej vodivosti, merná tepelná kapacita, objemová tepelná kapacita). Získané výsledky preukázali zhodu s tými, ktoré sú uvedené v literatúre.

DRAGOMIROVÁ, Janette - PALOU, Martin T. - KUZIELOVÁ, Eva - ŽEMLIČKA, Matúš - NOVOTNÝ, Radoslav - GMÉLING, Katalin. Optimization of cementitious composite for heavyweight concrete preparation using conduction calorimetry. In Journal of Thermal Analysis and Calorimetry, 2020, vol. 142, no. 1, p. 255-266. (2019: 2.731 - IF, Q2 - JCR, 0.415 - SJR, Q3 - SJR). ISSN 1388-6150, Typ: ADCA

JEONG, Minkwan - PALOU, Martin T. - PARK, Kyoungsoo. Mechanical Behavior of Fine Recycled Concrete Aggregate Concrete with the Mineral Admixtures. In Materials, 2020, vol. 13, art. no. 2264. (2019: 3.057 - IF, Q2 - JCR, 0.647 - SJR, Q2 - SJR). ISSN 1996-1944. Typ: ADCA

PALOU, Martin T. - BOHÁČ, Martin - KUZIELOVÁ, Eva - NOVOTNÝ, Radoslav - ŽEMLIČKA, Matúš - DRAGOMIROVÁ, Janette. Use of calorimetry and thermal analysis to assess the heat of supplementary cementitious materials during the hydration of composite cementitious binders. In Journal of Thermal Analysis and Calorimetry, 2020, vol. 142, no. 1, p. 97-117. (2019: 2.731 - IF, Q2 - JCR, 0.415 - SJR, Q3 - SJR). ISSN 1388-6150.

DRAGOMIROVÁ, Janette - PALOU Martin T. - GMÉLING Katalin - SZILÁGYI Veronika - HARSÁNYI Ildikó - SZENTMIKLÓSI László. Experimental study of selected properties of heavyweight concrete based on analysis of chemical composition and radioactive elements of its components, scientific.net. Typ: ADM

PALOU, Martin T. – DRAGOMIROVÁ, Janette – JU, Mikwan – PARK, Kyoungsoo – KUZIELOVÁ, Eva – ŽEMLIčKA, Matúš – KOPLIK, Ján. Mix Proportion and Experimental study of Heavyweight Self-Compacting Concrete based on Magnetite and Barite; International Journal of Concrete Structures and Materials. Submitted to Manuscript Number: CSTR-D-20-00087; International Journal of Concrete Structures and Materials

Programy: Iné

4.) Program metropolitných štúdií (*Programa en Estudios Metropolitanos (Metropolitan Studies Programme)*)

Zodpovedný riešiteľ:	Miroslav Kocifaj
Trvanie projektu:	1.9.2014 /
Evidenčné číslo projektu:	2723 CONACYT
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Cátedras CONACYT
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Dosiahnuté výsledky:

Domáce projekty

Programy: VEGA

1.) Výskum priamej zložky dennej osvetlenosti v architektonickom a interiérovom prostredí (*Research of direct component of daylighting in architectural and interior environment*)

Zodpovedný riešiteľ:	Stanislav Darula
Trvanie projektu:	1.1.2020 / 31.12.2022
Evidenčné číslo projektu:	VEGA- 2/0017/20
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav stavebnictva a architektúry SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 2345 €

Dosiahnuté výsledky:

DOLNIKOVA, Erika – KATUNSKY, Dušan – DARULA, Stanislav. Assessment of the level of daylight in the premises of engineering operation considering alternative shapes of skylights. Building and Environment, Volume 180, August 2020, <https://doi.org/10.1016/j.buildenv.2020.106976>

DARULA, Stanislav. Denné osvetlenie z pohľadu noriem STN a európskej EN 17037. Národní centrum ošetrovateľství a nelékařských zdravotnických oborů, Inovačný kurz 851-530/2020 HYGIENA OSVĚTLOVÁNÍ pre odborných pracovníkov KHS a zdravotních ústavov. Brno, 2. – 3.

3. 2020, prednáška

DARULA, Stanislav. Denné osvetlenie budov v kontexte európskej a slovenských nariem. 7 ročník Navrhujeme a stavíme budovy s takmer nulovou potrebou energie. On line odborný seminár 7. ročníka Navrhujeme a stavíme budovy s takmer nulovou potrebou. 23.11.2020, online prednáška

DARULA, Stanislav. Požiadavky na denné osvetlenie budov a ich dopad na hodnotenie energetickej hospodárnosti osvetlenia. Online konferencia SKSI Hodnotenie energetickej hospodárnosti osvetlenia v budovách v zmysle aktuálnych predpisov. SKSI Bratislava, 25. 11. 2020, online prednáška

2.) Difúzne svetlo v mestskom prostredí: nový model zohľadňujúci vlastnosti lokálnej atmosféry (*Diffuse light in urban environment: A new model which embraces the optical properties of a local urban atmosphere*)

Zodpovedný riešiteľ:	Miroslav Kocifaj
Trvanie projektu:	1.1.2020 / 31.12.2023
Evidenčné číslo projektu:	DIFFUSE
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav stavebníctva a architektúry SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 7034 €

Dosiahnuté výsledky:

KOCIFAJ, Miroslav** - KÓMAR, Ladislav - SOLANO LAMPHAR, H. A. - WALLNER, Stefan. Are population-based models advantageous in estimating the lumen outputs from light-pollution sources? In Monthly Notices of the Royal Astronomical Society: Letters, 2020, vol. 496, no. 1, p. L138-L141. (2019: 5.356 - IF, Q1 - JCR, 1.964 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 1745-3925.(APVV-18-0014 : Globálna charakterizácia svetelného znečistenia. VEGA 2/0010/20 : Difúzne svetlo v mestskom prostredí: nový model zohľadňujúci vlastnosti lokálnej atmosféry). Typ: ADCA

WALLNER, Stefan* - KOCIFAJ, Miroslav* - KÓMAR, Ladislav - SOLANO LAMPHAR, H. A.. Night-sky imaging as a potential tool for characterization of total lumen output from small and medium-sized cities. In Monthly Notices of the Royal Astronomical Society, 2020, vol. 494, iss. 4, p. 5008-5017. (2019: 5.356 - IF, Q1 - JCR, 1.937 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0035-8711.(APVV-18-0014 : Globálna charakterizácia svetelného znečistenia. VEGA 2/0010/20 : Difúzne svetlo v mestskom prostredí: nový model zohľadňujúci vlastnosti lokálnej atmosféry). Typ: ADCA

KOCIFAJ, Miroslav - BARÁ, Salvador. Aerosol characterization using satellite remote sensing of light pollution sources at night. In Monthly Notices of the Royal Astronomical Society: Letters, 2020, vol. 495, p. L76-L80. (2019: 5.356 - IF, Q1 - JCR, 1.964 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 1745-3925.(APVV-18-0014 : Globálna charakterizácia svetelného znečistenia. VEGA 2/0010/20 : Difúzne svetlo v mestskom prostredí: nový model zohľadňujúci vlastnosti lokálnej atmosféry). Typ: ADCA

3.) Výskum energetickej účinnosti inovatívnych BIPV/T článkov chladených PCM

technológiou. (The energy efficiency of an innovative BIPV/T-TE-PCM module with PCM passive cooling)

Zodpovedný riešiteľ: Ladislav Kómar
Trvanie projektu: 1.1.2020 / 31.12.2023
Evidenčné číslo projektu: 2/0095/20
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav stavebníctva a architektúry SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 4220 €

Dosiahnuté výsledky:

V prvom roku bol podľa plánu navrhnutý prvotný model integrovaného BIPV/T-TE-PCM článku so zohľadnením fyzikálnych javov prenosu tepla medzi jednotlivými vrstvami v systéme. Bol vylepšený simulačný nástroj pre výpočet prenosu tepla v systéme. Pomocou náschriftovaného modelu rozptylu žiarenia v oblačnej atmosfére, sa získali parametre aerosolu pri danom pokrytí oblohy oblakmi a z nich rozloženie žiary na oblohe a vertikálne ožiarenosti. Pre monitoring a zber dát pri reálnych klimatických podmienkach boli na streche USTARCH SAV inštalované dva PV moduly s viacbodovým meraním teploty, horizontálnej a vertikálnej ožiarenosti, ako aj meteo stanica na merania poveternostných podmienok v reálnom čase. Čiastkové výsledky z modelovania boli prezentované na konferencii Therophysics 2020 v Smoleniciach, ktorú organizoval USTARCH SAV.

4.) Štúdium procesov hydratácie a vývoja mikroštruktúry v mnohozložkových cementových spojivách (Study of hydration process and microstructure development in multi-component cementitious binders)

Zodpovedný riešiteľ: Martin-Tchingnabé Palou
Trvanie projektu: 1.1.2017 / 31.12.2020
Evidenčné číslo projektu: 2/0097/17
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav stavebníctva a architektúry SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 9378 €

Dosiahnuté výsledky:

Posledné obdobie realizácie projektu bolo zamerané predovšetkým na dlhodobé (po dobu jedného roka) a podrobne štúdium pôrovej štruktúry a s ňou súvisiacich mechanických vlastností (pevnosť v tlaku, ohybová pevnosť) štvorzložkových kompozitných cementových materiálov s 25, 30 a 35 hm.% nahradou cementu.

V súlade s reaktivitou použitých prímesí bolo najväčšie zjednenie pôrovej štruktúry zaznamenané pre vzorky pripravené s najvyšším obsahom veľmi jemného kremičitého úletu a najnižšou mierou nahradenia cementu. Vysoká puzolánová aktivita kremičitého úletu sa prejavila hlavne v skorých časoch hydratácie. Najväčší rozdiel medzi pevnosťou tejto vzorky a ďalšími zmesovými vzorkami a predovšetkým referenčnou vzorkou sa prejavil po siedmych dňoch hydratácie, čo dobre korešpondovalo s výsledkami ortuťovej porozimetrie (pevnosť v tlaku ~ 93 MPa, celková pôrovitosť 9,8 %; referenčná vzorka: pevnosť v tlaku ~ 63 MPa, celková pôrovitosť 12,6 %). V prípade dlhších časov ošetroania sa pozitívne prejavil aj vplyv zloženia s najvyšším podielom trosky (15 hm.%).

(pevnosť v tlaku po 365 dňoch ~ 99 MPa, celková pórovitosť 10,0 %; referenčná vzorka: pevnosť v tlaku ~ 96 MPa, celková pórovitosť 11,8 %), rovnako ako metakaolínu (15 hm.%), i keď dosiahnuté pevnosti boli do značnej miery ovplyvnené tiež najnižším množstvom cementu (65 hm.%). Možno predpokladať, že v týchto vzorkách zodpovedali za vývoj pevnostných charakteristík vo väčšej miere C-A-S-H fázy.

DRAGOMIROVÁ, Janette - PALOU, Martin T. - KUZIELOVÁ, Eva - ŽEMLIČKA, Matúš - NOVOTNÝ, Radoslav - GMÉLING, Katalin. Optimization of cementitious composite for heavyweight concrete preparation using conduction calorimetry. In Journal of Thermal Analysis and Calorimetry, 2020, vol. 142, no. 1, p. 255-266. (2019: 2.731 - IF, Q2 - JCR, 0.415 - SJR, Q3 - SJR). ISSN 1388-6150.(APVV-15-0631

KUZIELOVÁ, Eva - ŽEMLIČKA, Matúš - MÁSILKO, Jiří - HUDEC, Pavol - PALOU, Martin T. Influence of hydrothermal treatment parameters on the phase composition of zeolites. In Journal of Thermal Analysis and Calorimetry, 2020, vol. 142, p. 37-50. (2019: 2.731 - IF, Q2 - JCR, 0.415 - SJR, Q3 - SJR). ISSN 1388-6150.Typ: ADCA

KUZIELOVÁ, Eva - ŽEMLIČKA, Matúš - JANČA, Martin - ŠILER, Pavel - PALOU, Martin T. Later stages of Portland cement hydration influenced by different portions of silica fume, metakaolin and ground granulated blast-furnace slag. In Journal of Thermal Analysis and Calorimetry, 2020, vol. 142, no. 1, p. 339-348. (2019: 2.731 - IF, Q2 - JCR, 0.415 - SJR, Q3 - SJR). ISSN 1388-6150. Typ: ADCA

PALOU, Martin T. - BOHÁČ, Martin - KUZIELOVÁ, Eva - NOVOTNÝ, Radoslav - ŽEMLIČKA, Matúš - DRAGOMIROVÁ, Janette. Use of calorimetry and thermal analysis to assess the heat of supplementary cementitious materials during the hydration of composite cementitious binders. In Journal of Thermal Analysis and Calorimetry, 2020, vol. 142, no. 1, p. 97-117. (2019: 2.731 - IF, Q2 - JCR, 0.415 - SJR, Q3 - SJR). ISSN 1388-6150. Typ: ADCA

5.) Multiškálové štúdium a modelovanie kompozitných makrokonštrukcií (*Multiscale study and modelling of composite macrostructures*)

Zodpovedný riešiteľ:	Vladimír Sládeček
Trvanie projektu:	1.1.2020 / 31.12.2023
Evidenčné číslo projektu:	2/0061/20
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav stavebnictva a architektúry SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 14066 €

Dosiahnuté výsledky:

SLÁDEK Vladimír, SLÁDEK, Ján, REPKA, Miroslav, SÁTOR, Ladislav: FGM micro/nano-plates within modified couple stress elasticity. Compos Struct 245 (2020) 112294.
<https://doi.org/10.1016/j.compstruct.2020.112294>

SÁTOR, Ladislav, SLÁDEK Vladimír, SLÁDEK, Ján: Analysis of coupling effects in FGM piezoelectric plates by a meshless method. Composite Struct 244 (2020), 112256.
<https://doi.org/10.1016/j.compstruct.2020.112256>

SLÁDEK, Ján, SLÁDEK Vladimír, REPKA, Miroslav, SCHMAUDER, Siegfried. Crack analysis of nano-sized thermoelectric material structures. Eng Fract Mech 234 (2020) 107078.
<https://doi.org/10.1016/j.engfracmech.2020.107078>

LI, J., SLÁDEK, Ján, SLÁDEK Vladimír, WEN, P.H.: Hybrid meshless displacement discontinuity method (MDDM) in fracture mechanics: Static and dynamic. European Journal of Mechanics/ A Solids 83 (2020) 104023. <https://doi.org/10.1016/j.euromechsol.2020.104023>

SLÁDEK, Ján, SLÁDEK Vladimír, WEN, P.H.: The meshless analysis of scale-dependent problems for coupled fields, Materials 2020, 13, 2527. <https://doi.org/10.3390/ma13112527>

SLÁDEK, Ján, SLÁDEK Vladimír, WUNSCH, Michael: Crack analysis in magneto-electro-elastic solids by gradient theory. Mechanics of Advanced Materials and Structures 27 (2020), 1354-1371. <https://doi.org/10.1080/15376494.2018.1512020>

SLÁDEK, Ján, SLÁDEK Vladimír, REPKA, Miroslav, SCHMAUDER, Siegfried: Gradient theory for crack analysis in thermoelectric materials. AIP Conference Proceedings 2309, 020003 (2020). <https://doi.org/10.1063/5.0033983>

SLÁDEK Vladimír, SLÁDEK, Ján: Unified theory of beam bending within flexoelectricity with including piezoelectricity. MATEC Web of Conferences 310, 00063 (2020). <https://doi.org/10.1051/matecconf/202031000063>

Programy: APVV

6.) Globálna charakterizácia svetelného znečistenia (*Global Characterization of Skyglow*)

Zodpovedný riešiteľ:	Miroslav Kocifaj
Trvanie projektu:	1.7.2019 / 30.6.2023
Evidenčné číslo projektu:	APVV-18-0014
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav stavebníctva a architektúry SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 45726 €

Dosiahnuté výsledky:

- KOCIFAJ, Miroslav** - KUNDRACIK, F. - BILÝ, Ondrej. Emission spectra of light-pollution sources determined from the light-scattering spectrometry of the night sky. In Monthly Notices of the Royal Astronomical Society, 2020, vol. 491, iss. 4, p. 5586-5594. (2019: 5.356 - IF, Q1 - JCR, 1.937 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0035-8711.(APVV-18-0014 : Globálna charakterizácia svetelného znečistenia). Typ: ADCA
- KOCIFAJ, Miroslav** - KUNDRACIK, F. Multi-wavelength radiometry of aerosols designed for more accurate night sky brightness predictions. In Journal of Quantitative Spectroscopy & Radiative Transfer, 2020, vol. 250, art. no. 106998. (2019: 3.047 - IF, Q1 - JCR, 0.888 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 0022-4073.(APVV-18-0014 : Globálna charakterizácia svetelného znečistenia). Typ: ADCA
- KOCIFAJ, Miroslav** - VIDEEN, Gorden - KUNDRACIK, F. Charge-controlled optical resonances in small particles: Recent developments, challenges and prospects. In Journal of

Quantitative Spectroscopy & Radiative Transfer, 2020, vol. 240, art. no. 106703, p. 6703-6703. (2019: 3.047 - IF, Q1 - JCR, 0.888 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 0022-4073.(APVV-18-0014 : Globálna charakterizácia svetelného znečistenia. SEMOD-74-2/2019 : Nežiadúci a cielený rezonančný útlm mikrovlnných komunikačných liniek). Typ: ADCA

- KOCIFAJ, Miroslav - BARÁ, Salvador. Aerosol characterization using satellite remote sensing of light pollution sources at night. In Monthly Notices of the Royal Astronomical Society: Letters, 2020, vol. 495, p. L76-L80. (2019: 5.356 - IF, Q1 - JCR, 1.964 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 1745-3925.(APVV-18-0014 : Globálna charakterizácia svetelného znečistenia). Typ: ADCA
- KOCIFAJ, Miroslav** - KÓMAR, Ladislav - SOLANO LAMPHAR, H. A. - WALLNER, Stefan. Are population-based models advantageous in estimating the lumen outputs from light-pollution sources? In Monthly Notices of the Royal Astronomical Society: Letters, 2020, vol. 496, no. 1, p. L138-L141. (2019: 5.356 - IF, Q1 - JCR, 1.964 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 1745-3925.(APVV-18-0014 : Globálna charakterizácia svetelného znečistenia. VEGA 2/0010/20 : Difúzne svetlo v mestskom prostredí: nový model zohľadňujúci vlastnosti lokálnej atmosféry). Typ: ADCA
- PIEDRA, P. - GOBERT, C. - KALUME, A. - PAN, Yong-Le - KOCIFAJ, Miroslav - MUINONEN, Karri - PENTTILA, A. - ZUBKO, Evgenij - VIDEEN, Gorden**. Where is the machine looking? Locating discriminative light-scattering features by class-activation mapping. In Journal of Quantitative Spectroscopy & Radiative Transfer, 2020, vol. 247, art. no. 106936. (2019: 3.047 - IF, Q1 - JCR, 0.888 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 0022-4073.(APVV-18-0014 : Globálna charakterizácia svetelného znečistenia). Typ: ADCA
- SOLANO LAMPHAR, H. A.. Spatio-temporal association of light pollution and urban sprawl using remote sensing imagery and GIS: A simple method based in Otsu's algorithm. In Journal of Quantitative Spectroscopy & Radiative Transfer, 2020, vol. 251, art. no. 107060. (2019: 3.047 - IF, Q1 - JCR, 0.888 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 0022-4073.(APVV-18-0014 : Globálna charakterizácia svetelného znečistenia). Typ: ADCA
- WALLNER, Stefan* - KOCIFAJ, Miroslav* - KÓMAR, Ladislav - SOLANO LAMPHAR, H. A.. Night-sky imaging as a potential tool for characterization of total lumen output from small and medium-sized cities. In Monthly Notices of the Royal Astronomical Society, 2020, vol. 494, iss. 4, p. 5008-5017. (2019: 5.356 - IF, Q1 - JCR, 1.937 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0035-8711.(APVV-18-0014 : Globálna charakterizácia svetelného znečistenia. VEGA 2/0010/20 : Difúzne svetlo v mestskom prostredí: nový model zohľadňujúci vlastnosti lokálnej atmosféry). Typ: ADCA

7.) Výskum a vývoj mnohozložkových cementových zmesí pre špeciálne konštrukčné materiály (*Research and development of multi-component cementitious blends for special construction materials*)

Zodpovedný riešiteľ:	Martin-Tchingnabé Palou
Trvanie projektu:	1.7.2020 / 30.6.2024
Evidenčné číslo projektu:	APVV-19-0490
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav stavebníctva a architektúry SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 22774 €

Dosiahnuté výsledky:

Janette Dragomirová, Martin T. Palou, Katalin Gmeling, Veronika Szilágyi, Ildikó Harsányi, László Szentmiklósi. Experimental study of selected properties of heavyweight concrete based on analysis of chemical composition and radioactive elements of its components, Solid State Phenomenon, ISSN: 1662-9779, Vol. 321, pp 113-118. Online

8.) Výskum vysokohodnotných cementových kompozitov za hydrotermálnych podmienok pre potenciálne využitie v hĺbkových vrtoch (Research on High Performance cementitious Composites under hydrothermal conditions for potential application in deep borewells)

Zodpovedný riešiteľ:	Martin-Tchingnabé Palou
Trvanie projektu:	1.7.2016 / 30.6.2020
Evidenčné číslo projektu:	APVV-15-0631
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav stavebníctva a architektúry SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 41510 €

Dosiahnuté výsledky:

APVV-15-0631 – časť „Numerické simulácie podmienok hlbokých geotermálnych a ropných vrtov“

V roku 2020 bolo naše úsilie zamerané na vývoj numerických modelov popisujúcich celý hĺbkový vrt a výsledky boli porovnané s výsledkami získanými zo zjednodušeného modelu predstavujúceho iba vybranú časť studne a jej okolia. Model úplného vrtu poskytuje spoľahlivejšie výsledky, pretože umožňuje modelovať variabilitu materiálových charakteristík v závislosti od geologického zloženia prostredia vrtu a teploty okolia; zohľadňuje lokálny výskyt zmeny teploty okolia, resp. diskontinuita v skalách okolo studne.

Podrobnejšiu diskusiu o dosiahnutých výsledkoch možno nájsť v predmetných publikáciach, ako aj vo výročných správach o riešení projektu. Je dôležité poznamenať, že za experimentálnych podmienok dosiahli materiály, ktoré sme vyvinuli, vyššie hodnoty pevnostných charakteristík, ako boli získané z modelových výpočtov. Možno ich preto považovať za perspektívne pre aplikácie v geotermálnych vrtoch do simulovaných hlbok (5 km až 10 km).

Sadovský, Zoltán., Kriváček, Jozef. Influential geometric imperfections in buckling of axially compressed cylindrical shells – A novel approach. Engineering Structures 223 (2020) 111170; doi:10.1016/j.engstruct.2020.111170; Typ: ADC

Keďže cementovanie v geotermálnych vrtoch môže byť ovplyvnené, či dokonca narušené (oslabenie štruktúry, zvýšenie prieplustnosti) reakciami hydratačných produktov s CO₂, projekt sa v roku 2020 zameral na stanovenie odolnosti odolnosti zatvrdenutých nami vyvinutých vysokohodnotných cementových kompozitov proti karbonatizácii v podmienkach simulujúcich reálne vrty. S ohľadom na geologické podmienky na našom území sme zvolili podmienky s teplotami okolo 150 °C, pri ktorých je CO₂ rozpustený v slanej minerálnej vode. Zloženie roztoku podobné geotermálnej vode Na-Cl typu, ktorá je obohatená o CO₂, bolo vypočítané na základe skutočného zloženia geotermálnej vody. Koncentrácia solí v geotermálnej vode ovplyvňuje rozpustnosť CO₂ a je preto dôležitým faktom pri výskume karbonatizácie.

Experimenty realizované v autokláve pri vysokých teplotách a porovnávané s výsledkami urýchlenej karbonatizácie vzoriek v CO₂ komore preukázali, že stupeň karbonatizácie do veľkej miery ovplyvňuje prístup CO₂ v skorých štádiach hydratácie. Vyšší obsah uhličitanov bol detegovaný v trojzložkových vzorkách (cement triedy G – kremičitý úlet – troska) pripravených s vyšším obsahom vysokopecnej trosky ako vo vzorkách pripravených náhradou trosky metakaolínom. Avšak v prípade, že boli kontaktu s CO₂ vystavené vzorky, ktoré boli najskôr autoklávované, miera karbonatizácie určovala pórová štruktúra vytvorená predovšetkým vplyvom

vysokých teplôt.

9.) Multiškalova teória flexoelektricity a nové metódy pre detekciu mikrotrhlín v reálnom čase v dielektrických materiáloch (A multiscale flexoelectric theory and a new method for real-time detection of microcracks in dielectric materials)

Zodpovedný riešiteľ:	Ján Sládek
Trvanie projektu:	1.10.2018 / 30.9.2021
Evidenčné číslo projektu:	SK-CN-RD-18-0005
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav stavebníctva a architektúry SAV
Počet spoluriešiteľských inštitúcií:	1 - Čína: 1
Čerpané financie:	APVV: 79188 €

Dosiahnuté výsledky:

- [1] X. Tian, M. Xu, Q. Deng, J. Sladek, V. Sladek, M. Repka, Q. Li: A general explicit solution to a micro-hole in flexoelectric solids, *Acta Mechanica* 231 (2020) 4851-4865.
<https://doi.org/10.1007/s00707-020-02792-7>
- [2] L. Sator, V. Sladek, J. Sladek: Analysis of coupling effects in FGM piezoelectric plates by a meshless method. *Composite Structures* 244 (2020), 112256.
<https://doi.org/10.1016/j.compstruct.2020.112256>
- [3] J. Sladek, V. Sladek, M. Repka, S. Schmauder: Crack analysis of nano-sized thermoelectric material structures. *Engineering Fracture Mechanics* 234 (2020) 107078.
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- [7] J. Sladek, V. Sladek, S.M. Hosseini: Analysis of a curved Timoshenko nano-beam with flexoelectricity. *Acta Mechanica* (accepted)
- [8] X. Tian, J. Sladek, V. Sladek, Q. Deng, Q. Li: Collocation mixed finite elements for flexoelectric solids. *International Journal of Solids and Structures* (submitted).
- [9] J. Sladek, V. Sladek, M. Repka, E. Pan: Size effect in piezoelectric semiconductor nanostructures, *European Journal of Mechanics – A solids* (submitted).
- [10] J. Sladek, V. Sladek, M. Repka, Q. Deng: Flexoelectric effect in dielectrics under a dynamic load, *Composite Structures* (submitted).
- [11] O. Hrytsyna: Local Gradient Bernoulli-Euler Beam Model for Dielectrics: Effect of Local Mass Displacement on Coupled Fields. *Mathematics and Mechanics of Solids*. (accepted)
<https://doi.org/10.1177/1081286520963374>

10.) Optimálny návrh mikro/nano konštrukcii pre metamateriály (Optimal design of micro/nano structures for metamaterials)

Zodpovedný riešiteľ:	Ján Sládek
Trvanie projektu:	1.7.2019 / 30.6.2023

Evidenčné číslo projektu: APVV-18-0004
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav stavebníctva a architektúry SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 60588 €

Dosiahnuté výsledky:

- [1] J. Sladek, V. Sladek, M. Repka, E. Pan: A novel gradient theory for thermoelectric material structures. International Journal of Solids and Structures, 206 (2020) 292-303.
<https://doi.org/10.1016/j.ijsolstr.2020.09.023>
- [2] S.M. Hosseini, J. Sladek, V. Sladek: Nonlocal coupled photo-thermoelasticity analysis in a semiconducting micro/nano beam resonator subjected to plasma shock loading: A Green-Naghdi-based analytical solution. Applied Mathematical Modelling 88 (2020) 631-651.
<https://doi.org/10.1016/j.apm.2020.06.069>
- [3] J. Li, J. Sladek, V. Sladek, P.H. Wen: Hybrid meshless displacement discontinuity method (MDDM) in fracture mechanics: Static and dynamic. European Journal of Mechanics/ A Solids 83 (2020) 104023. <https://doi.org/10.1016/j.euromechsol.2020.104023>
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Programy: Iné projekty

11.) Nežiadúci a cieľený rezonančný útlm mikrovlnných komunikačných liniek (The mechanisms of targeted resonant attenuation of microwave signals)

Zodpovedný riešiteľ: Miroslav Kocifaj
Trvanie projektu: 1.4.2019 / 30.6.2021
Evidenčné číslo projektu: SEMOD-74-2/2019
Organizácia je áno

koordinátorom projektu:

Koordinátor: Ústav stavebníctva a architektúry SAV

**Počet spoluriešiteľských
inštitúcií:** 0

Čerpané financie: Ministerstvo obrany: 41838 €

Dosiahnuté výsledky:

- KOCIFAJ, Miroslav** - VIDEEN, Gorden - KUNDRACIK, F. Charge-controlled optical resonances in small particles: Recent developments, challenges and prospects. In Journal of Quantitative Spectroscopy & Radiative Transfer, 2020, vol. 240, art. no. 106703, p. 6703-6703. (2019: 3.047 - IF, Q1 - JCR, 0.888 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 0022-4073.(APVV-18-0014 : Globálna charakterizácia svetelného znečistenia. SEMOD-74-2/2019 : Nežiadúci a cielený rezonančný útlm mikrovlnných komunikačných liniek). Typ: ADCA
- KUNDRACIK, F. - KOCIFAJ, Miroslav** - VIDEEN, Gorden - MARKOŠ, Peter. Optical properties of charged nonspherical particles determined using the discrete dipole approximation. In Journal of Quantitative Spectroscopy & Radiative Transfer, 2020, vol. 254, art. no. 107245. (2019: 3.047 - IF, Q1 - JCR, 0.888 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 0022-4073.(SEMOD-74-2/2019 : Nežiadúci a cielený rezonančný útlm mikrovlnných komunikačných liniek). Typ: ADCA

Príloha C

Publikačná činnosť organizácie (generovaná z ARL)

AAA Vedecké monografie vydané v zahraničných vydavateľstvách

- AAA01 HYRTSYNA, Olha - KONDRA, Vasyl. Local Gradient Theory for Dielectrics : Fundamentals and Applications. Jenny Stanford Publishing, 2020. 330 p. Dostupné na: <https://doi.org/10.1201/9781003006862> . ISBN 978-981-4800-2-4

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

- ADCA01 BARENTINE, John C.** - KUNDRACIK, F. - KOCIFAJ, Miroslav - SANDERS, Jessie C. - ESQUERDO, Gilbert A. - DALTON, Adam M. - FOOTT, Bettymaya - GRAUER, Albert - TUCKER, Scott - KYBA, Christopher C. M. Recovering the city street lighting fraction from skyglow measurements in a large-scale municipal dimming experiment. In Journal of Quantitative Spectroscopy & Radiative Transfer, 2020, vol. 253, art. no. 107120. (2019: 3.047 - IF, Q1 - JCR, 0.888 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 0022-4073. Dostupné na: <https://doi.org/10.1016/j.jqsrt.2020.107120> (APVV-18-0014 : Globálna charakterizácia svetelného znečistenia)
- ADCA02 DAMBRAUSKAS, T. - KNABIKAITE, I. - EISINAS, A. - BALTAKYS, K. - PALOU, Martin T.. Influence of Cr³⁺, Co²⁺ and Cu²⁺ on the formation of calcium silicates hydrates under hydrothermal conditions at 200 °C. In Journal of Asian Ceramic Societies, 2020, vol. 8, no. 3, p. 753-763. (2019: 2.653 - IF, Q1 - JCR, 0.647 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2187-0764. Dostupné na: <https://doi.org/10.1080/21870764.2020.1789287>
- ADCA03 DOLNIKOVA, E.** - KATUNSKY, D. - DARULA, Stanislav. Assessment of overcast sky daylight conditions in the premises of engineering operations considering two types of skylights. In Building and Environment, 2020, vol. 180, art. no. 106976. (2019: 4.971 - IF, Q1 - JCR, 1.871 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0360-1323. Dostupné na: <https://doi.org/10.1016/j.buildenv.2020.106976>
- ADCA04 DRAGOMIROVÁ, Janette - PALOU, Martin T. - KUZIELOVÁ, Eva - ŽEMLIČKA, Matúš - NOVOTNÝ, Radoslav - GMÉLING, Katalin. Optimization of cementitious composite for heavyweight concrete preparation using conduction calorimetry. In Journal of Thermal Analysis and Calorimetry, 2020, vol. 142, no. 1, p. 255-266. (2019: 2.731 - IF, Q2 - JCR, 0.415 - SJR, Q3 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1388-6150. Dostupné na: <https://doi.org/10.1007/s10973-020-09530-0> (APVV-15-0631 : Výskum vysokohodnotných cementových kompozitov za hydrotermálnych podmienok pre potenciálne využitie v hĺbkových vrtoch. VEGA 2/0097/17 : Štúdium procesov hydratácie a vývoja mikroštruktúry v mnohozložkových cementových spojivách. V4-KOREA_RADCON : Vplyv chemického zloženia betónu na jeho dlhodobú trvanlivosť v (ionizujúcom) ionizovanom prostredí. SK-KR-18-0006 : Materiálové zloženie a mechanické vlastnosti ľahkého a samozhotňujúceho sa betónu)
- ADCA05 HOSSEINI, S. M.** - SLÁDEK, Ján - SLÁDEK, Vladimír. Nonlocal coupled photo-thermoelasticity analysis in a semiconducting micro/nano beam resonator subjected to plasma shock loading: A Green-Naghdi-based analytical solution. In Applied Mathematical Modeling, 2020, vol. 88, p. 631-651. (2019: 3.633 - IF, Q1 - JCR, 0.957 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0307-904X. Dostupné na: <https://doi.org/10.1016/j.apm.2020.06.069> (APVV-14-

- 0440 : Multifyzikálne problémy v doskách z funkcionálne gradientných materiálov.
APVV-18-0004 : Optimálny návrh mikro/nano konštrukcií pre metamateriály)
- ADCA06 HYRTSYNA, Olha - KONDRAT, Vasyl. Local gradient theory for thermoelastic dielectrics: Accounting for mass and electric charge transfer due to microstructure changes. In Journal of mechanics of materials and structures, 2019, vol. 14, no. 4, p. 549-568. (2018: 1.239 - IF, Q4 - JCR, 0.572 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1559-3959. Dostupné na: <https://doi.org/10.2140/jomms.2019.14.549> (SK-CN-RD-18-0005 : Multiškálová flexoelektricka teória a nova metóda na detekciu mikrotrhlín v dielektrikach v realnom čase)
- ADCA07 HYRTSYNA, Olha. A BERNOULLI-EULER BEAM MODEL BASED ON THE LOCAL GRADIENT THEORY OF ELASTICITY. In Journal of mechanics of materials and structures, 2020, vol. 15, no. 4, p. 471-487. (2019: 0.987 - IF, Q4 - JCR, 0.431 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1559-3959. Dostupné na: <https://doi.org/10.2140/jomms.2020.15.471> (SK-CN-RD-18-0005 : Multiškálová flexoelektricka teória a nova metóda na detekciu mikrotrhlín v dielektrikach v realnom čase)
- ADCA08 JU, Minkwan - JEONG, Jae-Gwon - PALOU, Martin T. - PARK, Kyoungsoo. Mechanical Behavior of Fine Recycled Concrete Aggregate Concrete with the Mineral Admixtures. In Materials, 2020, vol. 13, art. no. 2264. (2019: 3.057 - IF, Q2 - JCR, 0.647 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1996-1944. Dostupné na: <https://doi.org/10.3390/ma13102264>
- ADCA09 KOCIFAJ, Miroslav** - KUNDRACIK, F. - BILÝ, Ondrej. Emission spectra of light-pollution sources determined from the light-scattering spectrometry of the night sky. In Monthly Notices of the Royal Astronomical Society, 2020, vol. 491, iss. 4, p. 5586-5594. (2019: 5.356 - IF, Q1 - JCR, 1.937 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0035-8711. Dostupné na: <https://doi.org/10.1093/mnras/stz3260> (APVV-18-0014 : Globálna charakterizácia svetelného znečistenia)
- ADCA10 KOCIFAJ, Miroslav** - VIDEEN, Gorden - KUNDRACIK, F. Charge-controlled optical resonances in small particles: Recent developments, challenges and prospects. In Journal of Quantitative Spectroscopy & Radiative Transfer, 2020, vol. 240, art. no. 106703. (2019: 3.047 - IF, Q1 - JCR, 0.888 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 0022-4073. Dostupné na: <https://doi.org/10.1016/j.jqsrt.2019.106703> (APVV-18-0014 : Globálna charakterizácia svetelného znečistenia. SEMOD-74-2/2019 : Nežiadúci a cielený rezonančný útlm mikrovlnných komunikačných liniek)
- ADCA11 KOCIFAJ, Miroslav** - KÓMAR, Ladislav - SOLANO LAMPHAR, H. A. - WALLNER, Stefan. Are population-based models advantageous in estimating the lumen outputs from light-pollution sources? In Monthly Notices of the Royal Astronomical Society: Letters, 2020, vol. 496, no. 1, p. L138-L141. (2019: 5.356 - IF, Q1 - JCR, 1.964 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 1745-3925. Dostupné na: <https://doi.org/10.1093/mnrasl/slaa100> (APVV-18-0014 : Globálna charakterizácia svetelného znečistenia. VEGA 2/0010/20 : Difúzne svetlo v mestskom prostredí: nový model zohľadňujúci vlastnosti lokálnej atmosféry)
- ADCA12 KOCIFAJ, Miroslav - BARÁ, Salvador. Aerosol characterization using satellite remote sensing of light pollution sources at night. In Monthly Notices of the Royal Astronomical Society: Letters, 2020, vol. 495, p. L76-L80. (2019: 5.356 - IF, Q1 - JCR, 1.964 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 1745-3925. Dostupné na: <https://doi.org/10.1093/mnrasl/slaa060> (APVV-18-0014 : Globálna charakterizácia

- svetelného znečistenia)
- ADCA13 KOCIFAJ, Miroslav** - KUNDRACIK, F. Multi-wavelength radiometry of aerosols designed for more accurate night sky brightness predictions. In Journal of Quantitative Spectroscopy & Radiative Transfer, 2020, vol. 250, art. no. 106998. (2019: 3.047 - IF, Q1 - JCR, 0.888 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 0022-4073. Dostupné na: <https://doi.org/10.1016/j.jqsrt.2020.106998> (APVV-18-0014 : Globálna charakterizácia svetelného znečistenia)
- ADCA14 KUNDRACIK, F. - KOCIFAJ, Miroslav** - VIDEEN, Gorden - MARKOŠ, Peter. Optical properties of charged nonspherical particles determined using the discrete dipole approximation. In Journal of Quantitative Spectroscopy & Radiative Transfer, 2020, vol. 254, art. no. 107245. (2019: 3.047 - IF, Q1 - JCR, 0.888 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 0022-4073. Dostupné na: <https://doi.org/10.1016/j.jqsrt.2020.107245> (SEMOD-74-2/2019 : Nežiadúci a cielený rezonančný útlm mikrovlnných komunikačných liniek)
- ADCA15 KUZIELOVÁ, Eva - ŽEMLIČKA, Matúš - JANČA, Martin - ŠILER, Pavel - PALOU, Martin T.. Later stages of Portland cement hydration influenced by different portions of silica fume, metakaolin and ground granulated blast-furnace slag. In Journal of Thermal Analysis and Calorimetry, 2020, vol. 142, no. 1, p. 339-348. (2019: 2.731 - IF, Q2 - JCR, 0.415 - SJR, Q3 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1388-6150. Dostupné na: <https://doi.org/10.1007/s10973-020-09520-2> (APVV-15-0631 : Výskum vysokohodnotných cementových kompozitov za hydrotermálnych podmienok pre potenciálne využitie v hĺbkových vrtoch. VEGA 2/0097/17 : Štúdium procesov hydratácie a vývoja mikroštruktúry v mnohozložkových cementových spojivách)
- ADCA16 KUZIELOVÁ, Eva - ŽEMLIČKA, Matúš - MÁSILKO, Jiří - HUDEC, Pavol - PALOU, Martin T.. Influence of hydrothermal treatment parameters on the phase composition of zeolites. In Journal of Thermal Analysis and Calorimetry, 2020, vol. 142, p. 37-50. (2019: 2.731 - IF, Q2 - JCR, 0.415 - SJR, Q3 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1388-6150. Dostupné na: <https://doi.org/10.1007/s10973-020-09784-8> (APVV-15-0631 : Výskum vysokohodnotných cementových kompozitov za hydrotermálnych podmienok pre potenciálne využitie v hĺbkových vrtoch. VEGA 2/0097/17 : Štúdium procesov hydratácie a vývoja mikroštruktúry v mnohozložkových cementových spojivách)
- ADCA17 LI, J. - SLÁDEK, Ján - SLÁDEK, Vladimír - WEN, P. H.**. Hybrid meshless displacement discontinuity method (MDDM) in fracture mechanics: Static and dynamic. In European Journal of Mechanics A: Solids, 2020, vol. 83, art. no. 104023. (2019: 3.786 - IF, Q1 - JCR, 1.295 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0997-7538. Dostupné na: <https://doi.org/10.1016/j.euromechsol.2020.104023> (APVV-18-0004 : Optimálny návrh mikro/nano konštrukcií pre metamateriály. VEGA 2/0061/20 : Multiškálové štúdium a modelovanie kompozitných makrokonštrukcií)
- ADCA18 PALOU, Martin T. - BOHÁČ, Martin - KUZIELOVÁ, Eva - NOVOTNÝ, Radoslav - ŽEMLIČKA, Matúš - DRAGOMIROVÁ, Janette. Use of calorimetry and thermal analysis to assess the heat of supplementary cementitious materials during the hydration of composite cementitious binders. In Journal of Thermal Analysis and Calorimetry, 2020, vol. 142, no. 1, p. 97-117. (2019: 2.731 - IF, Q2 - JCR, 0.415 - SJR, Q3 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1388-6150. Dostupné na: <https://doi.org/10.1007/s10973-020-09341-3> (APVV-15-0631 : Výskum vysokohodnotných cementových kompozitov za hydrotermálnych podmienok pre potenciálne využitie v hĺbkových vrtoch. VEGA 2/0097/17 : Štúdium procesov hydratácie a vývoja mikroštruktúry v mnohozložkových cementových

- spojivách. V4-KOREA_RADCON : Vplyv chemického zloženia betónu na jeho dlhodobú trvanlivosť v (ionizujúcim) ionizovanom prostredí)
- ADCA19 PIEDRA, P. - GOBERT, C. - KALUME, A. - PAN, Yong-Le - KOCIFAJ, Miroslav - MUINONEN, Karri - PENTTILA, A. - ZUBKO, Evgenij - VIDEEN, Gorden**. Where is the machine looking? Locating discriminative light-scattering features by class-activation mapping. In Journal of Quantitative Spectroscopy & Radiative Transfer, 2020, vol. 247, art. no. 106936. (2019: 3.047 - IF, Q1 - JCR, 0.888 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 0022-4073. Dostupné na: <https://doi.org/10.1016/j.jqsrt.2020.106936> (APVV-18-0014 : Globálna charakterizácia svetelného znečistenia)
- ADCA20 PICHARDO-CORPUS, J. A. - SOLANO LAMPHAR, H. A.** - LOPEZ-FARIAS, R. - RUIZ, O. Delgadillo. Spatio-temporal networks of light pollution. In Journal of Quantitative Spectroscopy & Radiative Transfer, 2020, vol. 253, art. no. 107068. (2019: 3.047 - IF, Q1 - JCR, 0.888 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 0022-4073. Dostupné na: <https://doi.org/10.1016/j.jqsrt.2020.107068> (APVV-18-0014 : Globálna charakterizácia svetelného znečistenia)
- ADCA21 PUSCHNIG, Johannes** - WALLNER, Stefan - POSCH, Thomas. Circalunar variations of the night sky brightness - an FFT perspective on the impact of light pollution. In Monthly Notices of the Royal Astronomical Society, 2020, vol. 492, iss. 2, p. 2622-2637. (2019: 5.356 - IF, Q1 - JCR, 1.937 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0035-8711. Dostupné na: <https://doi.org/10.1093/mnras/stz3514>
- ADCA22 SADOVSKÝ, Zoltán** - KRIVÁČEK, Jozef. Influential geometric imperfections in buckling of axially compressed cylindrical shells – A novel approach. In Engineering Structures, 2020, vol. 223, p. 111170. (2019: 3.548 - IF, Q1 - JCR, 1.595 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0141-0296. Dostupné na: <https://doi.org/10.1016/j.engstruct.2020.111170> (APVV-15-0631 : Výskum vysokohodnotných cementových kompozitov za hydrotermálnych podmienok pre potenciálne využitie v hĺbkových vrtoch)
- ADCA23 SÁTOR, Ladislav** - SLÁDEK, Vladimír - SLÁDEK, Ján. Analysis of coupling effects in FGM piezoelectric plates by a meshless method. In Composite Structures, 2020, vol. 244, art. no. 112256. (2019: 5.138 - IF, Q1 - JCR, 1.784 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0263-8223. Dostupné na: <https://doi.org/10.1016/j.compstruct.2020.112256> (SK-CN-RD-18-0005 : Multiškálová flexoelektrická teória a nova metóda na detekciu mikrotrhlín v dielektrikach v realnom čase)
- ADCA24 SLÁDEK, Ján** - SLÁDEK, Vladimír - WEN, P. H. The Meshless Analysis of Scale-Dependent Problems for Coupled Fields. In Materials, 2020, vol. 13, iss. 11, art. no. 2527. (2019: 3.057 - IF, Q2 - JCR, 0.647 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1996-1944. Dostupné na: <https://doi.org/10.3390/ma13112527> (APVV-18-0004 : Optimálny návrh mikro/nano konštrukcií pre metamateriály. VEGA 2/0061/20 : Multiškálové štúdium a modelovanie kompozitných makrokonštrukcií)
- ADCA25 SLÁDEK, Ján** - SLÁDEK, Vladimír - REPKA, Miroslav - PAN, E. A novel gradient theory for thermoelectric material structures. In International Journal of Solids and Structures, 2020, vol. 206, p. 292-303. (2019: 3.213 - IF, Q1 - JCR, 1.295 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0020-7683. Dostupné na: <https://doi.org/10.1016/j.ijsolstr.2020.09.023> (APVV-18-0004 : Optimálny návrh mikro/nano konštrukcií pre metamateriály. VEGA 2/0061/20 : Multiškálové štúdium a modelovanie kompozitných makrokonštrukcií)
- ADCA26 SLÁDEK, Ján** - SLÁDEK, Vladimír - REPKA, Miroslav - SCHMAUDER,

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ADNA Vedecké práce v domácich impaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

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2. [1.1] LI, Y. - LI, J. - WEN, P. H. *Finite and infinite block Petrov-Galerkin method for cracks in functionally graded materials. In APPLIED MATHEMATICAL MODELLING. ISSN 0307-904X, 2019, vol. 68, p. 306-326.*, Registrované v: WOS
- AEC03 ZHANG, Chuanzeng - SLÁDEK, Ján - SLÁDEK, Vladimír. 2-D elastodynamic crack analysis in FGMs by a time-domain BIEM. In Advances in Boundary Elements Techniques V : Lisbon, 21-23 July 2004. Editori V. Leitao, M. Aliabadi. -

Eastleigh : EC Ltd, 2004, p. 181-190.

Citácie:

1. [1.1] LI, Y. - ZHANG, J. - ZHONG, Y. D. - SHU, X. M. - DONG, Y. Q. *Transient elastodynamic analysis with a combination of convolution quadrature method and pseudo-initial condition method. In ENGINEERING COMPUTATIONS. ISSN 0264-4401, 2019, vol. 36, no. 1, p. 334-355., Registrované v: WOS*

***AED Vedecké práce v domácich recenzovaných vedeckých zborníkoch, monografiách**

AED01

MORAVČÍKOVÁ, Henrieta. Moderná architektúra ako kultúrne dedičstvo: predpoklady a paradoxy ochrany = Modern architecture as cultural heritage: presumptions and paradoxes of protection. In Monumentorum Tutela : Ochrana pamiatok 20. I.Hodnoty a perspektívy ochrany architektúry a urbanistických štruktúr 50. a 60. rokov 20. storočia. Zodpovedná redaktorka Katarína Kosová. - Bratislava : Pamiatkový úrad Slovenskej republiky, p. 117-123. ISBN 978-80-89175-30-7.

Citácie:

1. [2.1] JANTO, J. *Modern City and Its Cultural Heritage the example of Partizanske and Nova Dubnica. In MUZEOLOGIA A KULTURNE DEDICSTVO-MUSEOLOGY AND CULTURAL HERITAGE. ISSN 1339-2204, 2019, vol. 7, no. 2, p. 109-121., Registrované v: WOS*

AEDA Vedecké práce v domácich recenzovaných zborníkoch, kratšie kapitoly/state v domácich monografiách alebo VŠ učebniach

AEDA01

DRAGOMIROVÁ, Janette - PALOU, Martin T.. Príprava a vlastnosti vysokopevnostných t'ažkých betónov. In Betonárske dni 2018 : zborník príspevkov. Sekcia A4.Nové materiály a technológie. - Bratislava : Slovenská technická univerzita v Bratislave, 2018, s. 165-170. ISBN 978-80-227-4852-0.(V4-KOREA_RADCON : Vplyv chemického zloženia betónu na jeho dlhodobú trvanlivosť v (ionizujúcom) ionizovanom prostredí. Betonárske dni 2018)

Citácie:

1. [3.1] BRODŇAN, M. - KOTEŠ P. - STRIEŠKA M. *Využitie výsledkov zrýchlených koróznych skúšok na predikciu korózie výstuže. In TZB-info, ISSN 1801-4399, 2019. Dostupné na internete: <https://stavba.tzb-info.cz/beton-maltnomitky/18658-vyuzitie-vysledkov-zrychlenych-koroznych-skusok-na-predikciu-korozie-vystuze>.*

***AEF Vedecké práce v domácich nerecenzovaných vedeckých zborníkoch, monografiách**

AEF01

KORONTHÁLYOVÁ, Ol'ga - MATIAŠOVSKÝ, Peter. Pore Structure and Thermal Conductivity of Burnt Clay Bricks. In Thermophysics 2007 : proceedings. Editor J. Leja. - Bratislava : Vydavateľstvo STU, 2007, p. 100-106. ISBN 978-80-227-27465-4.

Citácie:

1. [1.1] POKHARA, P. - EKAMPARAM, A. S. S. - GUPTA, A. B. - RAI, D. C. - SINGH, A. *Activated alumina sludge as partial substitute for fine aggregates in brick making. In CONSTRUCTION AND BUILDING MATERIALS. ISSN 0950-0618, 2019, vol. 221, p. 244-252., Registrované v: WOS*

AFC Publikované príspevky na zahraničných vedeckých konferenciách

AFC01 DARULA, Stanislav - KITTLER, Richard. CIE General Sky standard defining luminance distributions. In Proceeding Conference eSim 2002. The Canadian conference on building energy simulation : september 11th - 13th, 2002, Montreal. Dostupné na internete: <http://www.ustarch.sav.sk/wp-content/uploads/darula_kittler_proc_conf_esim_2002.pdf>

Citácie:

1. [1.1] KIM, C. H. - KIM, K. S. *Development of Sky Luminance and Daylight Illuminance Prediction Methods for Lighting Energy Saving in Office Buildings.* In ENERGIES. ISSN 1996-1073, 2019, vol. 12, no. 4, art. no. 592., Registrované v: WOS
2. [1.1] LEE, S. - LEE, K. S. *A Study on the Improvement of the Evaluation Scale of Discomfort Glare in Educational Facilities.* In ENERGIES, 2019, vol. 12, no. 17., Registrované v: WOS
3. [1.1] SCHNEIDER-ZAPP, K. - CUBERO-CASTAN, M. - SHI, D. - STRECHA, C. *A new method to determine multi-angular reflectance factor from lightweight multispectral cameras with sky sensor in a target-less workflow applicable to UAV.* In REMOTE SENSING OF ENVIRONMENT. ISSN 0034-4257, 2019, vol. 229, p. 60-68., Registrované v: WOS
4. [1.1] ZHANG, Y. Q. - ZHUO, X. - GUO, W. - WANG, X. Y. - ZHAO, Z. L. *Lighting Environment Optimization of Highway Tunnel Entrance Based on Simulation Research.* In INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH, 2019, vol. 16, no. 12, art. no. 2195., Registrované v: WOS

AFC02 KITTLER, Richard - PEREZ, Richard - DARULA, Stanislav. A new generation of sky standard. In Proceedings of the Lux Europa Conference. - Amsterdam, 1997, p. 359-373.

Citácie:

1. [1.1] AYOUB, M. *100 Years of daylighting: A chronological review of daylight prediction and calculation methods.* In SOLAR ENERGY. ISSN 0038-092X, 2019, vol. 194, p. 360-390., Registrované v: WOS

AFC03 KITTLER, Richard - DARULA, Stanislav. A catalogue of fifteen sky luminance patterns between the CIE standard skies. In Proceedings : 24th Session of the CIE. - Warsaw : CIE, 1999, p. 7-9. ISBN 3-900-734-93-3.(24th Session of the CIE)

Citácie:

1. [1.1] MOLKOV, A. A. - DOLIN, L. S. *The Snell's Window Image for Remote Sensing of the Upper Sea Layer: Results of Practical Application.* In JOURNAL OF MARINE SCIENCE AND ENGINEERING, 2019, vol. 7, no. 3, art. no. 70., Registrované v: WOS

AGI Správy o vyriešených vedeckovýskumných úlohách

AGI01 DARULA, Stanislav - ASHDOWN, I. - BARTZOKAS, A. - BISEGNA, F. - DUMORTIER, D. - GREENUP, P. - KAMBEZIDIS, H.D. - KENDRICK, D. - KITTLER, Richard - KOBAV, M. - KOGA, Y. - LO VERSO, V. R. M. - MARDALJEVIC, J. - MARKOU, M.T. - NG, E. - ROY, G. - UETANI, Y. - WITTKOPF, S. CIE Standard General Sky Guide : CIE 215:2014 technical report. Recenzent P. Zwick. Vienna : CIE Central Bureau, 2014. 78 p. ISBN 978-3-902842-54-1

Citácie:

1. [1.1] KIM, C. H. - KIM, K. S. *Development of Sky Luminance and Daylight Illuminance Prediction Methods for Lighting Energy Saving in Office Buildings.*

In ENERGIES. ISSN 1996-1073, 2019, vol. 12, no. 4, art. no. 592., Registrované v: WOS

- AGI02 KINZEY, Bruce - PERRIN, Tess E. - MILLER, Naomi J. - KOCIFAJ, Miroslav - AUBÉ, Martin - SOLANO LAMPHAR, H. A. An Investigation of LED Street Lighting's Impact on Sky Glow. Richland, Washington : Pacific Northwest National Laboratory, 2017. 38 p. Dostupné na internete: <https://energy.gov/sites/prod/files/2017/05/f34/2017_led-impact-sky-glow.pdf>
- Citácie:
1. [1.1] SCHULTE-ROEMER, N. - MEIER, J. - SOEDING, M. - DANNEMANN, E. *The LED Paradox: How Light Pollution Challenges Experts to Reconsider Sustainable Lighting.* In *SUSTAINABILITY*, 2019, vol. 11, no. 21, art. no. 6160., Registrované v: WOS

BAB Odborné knižné publikácie vydané v domácich vydavateľstvách

- BAB01 KITTLER, Richard - DARULA, Stanislav - PEREZ, Richard. A set of standard skies characterising daylight conditions for computer and energy conscious design. Bratislava : Polygrafia SAV, 1998. 52 p.
- Citácie:
1. [1.1] LIU, Y. - CHEN, Youming. *A normal distribution model for diffuse radiation versus incidence angle.* In *SOLAR ENERGY*. ISSN 0038-092X, 2019, vol. 186, p. 60-71., Registrované v: WOS
2. [1.1] LOU, Siwei - LI, Danny. H. W. - CHEN, Wenqiang. *Identifying overcast, partly cloudy and clear skies by illuminance fluctuations.* In *RENEWABLE ENERGY*. ISSN 0960-1481, 2019, vol. 138, p. 198-211., Registrované v: WOS

BEE Odborné práce v zahraničných zborníkoch (konferenčných aj nekonferenčných, recenzovaných a nerecenzovaných)

- BEE01 DARULA, Stanislav - OBERMAN, Peter. Jas okna v noci. In Kurz osvetlovací techniky XXVII. - Ostrava : VŠB-Technická univerzita Ostrava, 2009, p. 24-29. ISBN 978-80-248-2087-3.(Kurz osvetlovací techniky)
- Citácie:
1. [1.1] BECAK, P. - WLOSOKOVA, J. - PICHA, J. - NOVAK, T. - SOKANSKY, K. *Modeling of Luminous Flux Radiation to the Upper Hemisphere from Real Model of Town.* In *PROCEEDINGS OF THE 2019 20TH INTERNATIONAL SCIENTIFIC CONFERENCE ON ELECTRIC POWER ENGINEERING (EPE)*. ISSN 2376-5623, 2019, p. 164-1

Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

doc. Ing. Stanislav Darula, CSc.

Názov semestr. predmetu: Building Physics - Daylighting

Počet hodín za semester: 10

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Katedra konštrukcií pozemných stavieb

Prof.Dr.Ing. Martin-Tchingnabé Palou

Názov semestr. predmetu: Priemyselná anorganická chémia

Počet hodín za semester: 12

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Ústav anorganickej chémie, technológie a materiálov/FCHPT

Prof.Dr.Ing. Martin-Tchingnabé Palou

Názov semestr. predmetu: Procesy a zariadenia silikátového priemyslu

Počet hodín za semester: 12

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Ústav anorganickej chémie, technológie a materiálov/FCHPT

Prof.Dr.Ing. Martin-Tchingnabé Palou

Názov semestr. predmetu: Špeciálna technológia anorganických materiálov

Počet hodín za semester: 12

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Ústav anorganickej chémie, technológie a materiálov/FCHPT

Semestrálne cvičenia:

Semináre:

Terénnne cvičenia:

Individuálne prednášky:

Prof.Dr.Ing. Martin-Tchingnabé Palou

Názov semestr. predmetu: Technológia silikátov

Počet hodín za semester: 30

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Fakulta chemickej a potravinárskej technológie

Doc. Ing. Stanislav Darula, CSc.

Počet hodín za semester: 2

Názov katedry a vysokej školy: FEKT VUT Brno

Príloha E**Medzinárodná mobilita organizácie****(A) Vyslanie vedeckých pracovníkov do zahraničia na základe dohôd:**

Krajina	D r u h d o h o d y					
	MAD, KD, VTS		Medziústavná		Ostatné	
	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní
Počet vyslaní spolu						

(B) Prijatie vedeckých pracovníkov zo zahraničia na základe dohôd:

Krajina	D r u h d o h o d y					
	MAD, KD, VTS		Medziústavná		Ostatné	
	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní
Počet prijatí spolu						

(C) Účasť pracovníkov pracoviska na konferenciach v zahraničí (nezahrnutých v "A"):

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Spolu			

Vysvetlivky: MAD - medziakademické dohody, KD - kultúrne dohody, VTS - vedecko-technická spolupráca v rámci vládnych dohôd

Skratky použité v tabuľke C:

Príloha F**Vedecko-popularizačná činnosť pracovníkov organizácie SAV**

Meno	Spoluautori	Typ ¹	Názov	Miesto zverejnenia	Dátum alebo počet za rok
Darula S.		PB	Navrhujeme a stavíme budovy s takmer nulovou potrebou	SKSI Bratislava	23.11.2020
Darula S.		PB	HYGIENA OSVĚTLOVÁNÍ	NCONZO, Brno	2.3.2020
Darula S.		PB	Hodnotenie energetickej hospodárnosti osvetlenia v budovách v zmysle aktuálnych predpisov	SKSI Bratislava	25.11.2020
Kocifaj M.		IN	Vedci SAV navrhujú nové možnosti využitia satelitného monitorovania zdrojov svetelného znečistenia	https://www.sav.sk/index.php?lang=sk&doc=services-news&source_no=20&news_no=8917	18.6.2020
Kocifaj M.		IN	Vedci poznajú nové možnosti využitia satelitného monitorovania zdrojov svetelného znečistenia	https://www.webnoviny.sk/nasvidiek/vedci-poznaju-nove-moznosti-vyuzitia-satelitneho-monitorovania-zdrojov-svetelnego-znecistenia/	18.6.2020
Palou M.-T.		IN	Popularizácia vedy	https://www.sav.sk/index.php?lang=sk&doc=services-news&source_no=20&news_no=9126.	6.11.2020
Palou M.-T.		TL	Nové betóny môžu príspeť k ochrane životného prostredia	https://vat.pravda.sk/clovek/clanok/568195-nove-betony-mozu-prispieť-k-ochrane-zivotneho-prostredia/	10.11.2020
Žemlička M.		IN	Oddelenie stavebných hmôr a konštrukcií USTARCH SAV	https://www.youtube.com/watch?v=bRHfDXgJjFM	5.11.2020
Žemlička M.		IN	Oficiálne webové stránky Oddelenia stavebných hmôr a konštrukcií	http://www.geomat.sav.sk	2020

¹ PB - prednáška/beseda, TL - tlač, TV - televízia, RO - rozhlas, IN - internet, EX - exkurzia, PU - publikácia, MM - multimédiá, DO - dokumentárny film