



**DELIVERABLE 5.1**

**Statement on ZAG's peer reviewed  
publications published 3 years prior to  
the FRISSBE ERA Chair**

Deliverable number: D5.1  
Due date: 28. 02. 2021  
Submitted: 28. 02. 2021  
Nature: Report  
Dissemination level: Public  
Work package: 5  
Lead beneficiary: ZAG

**DOCUMENT HISTORY**

Version	Date	Description	Contributors
0.1	26. 02. 2021	D5.1 Statement on ZAG's peer reviewed publications published 3 years prior to the FRISSBE ERA Chair_v0.1	Friderik Knez Petra Horvat
0.2	26. 02. 2021	D5.1 Statement on ZAG's peer reviewed publications published 3 years prior to the FRISSBE ERA Chair_v0.2	Urška Kropf
Final	27. 02. 2021	D5.1 Statement on ZAG's peer reviewed publications published 3 years prior to the FRISSBE ERA Chair_vFinal	Petra Horvat Urška Kropf

**Disclaimer:**

The content reflects the views of the authors only. The European Commission is not liable for any use that may be made of the information contained herein.

This document contains information, which is proprietary to the ZAG. Neither this document nor the information contained herein shall be used, duplicated or communicated by any means to any third party, in whole or in parts, except with the prior written consent of the ZAG. This restriction legend shall not be altered or obliterated on or from this document. Neither the European Commission nor ZAG are liable for any use that may be made of the information that it contains.

---

## TABLE OF CONTENTS

1. INTRODUCTION .....	4
2. ZAG'S BIBLIOGRAPHY IN THE FRISSBE TECHNICAL FIELD .....	4
3. CONCLUSION.....	4
4. ANNEXES .....	4
ANNEX 1 .....	5

## 1. INTRODUCTION

This deliverable presents list of peer-reviewed publications (in the particular field of research) of the beneficiary Slovenian National Building and Civil Engineering Institute during three years preceding the start date of the project.

## 2. ZAG'S BIBLIOGRAPHY IN THE FRISSBE TECHNICAL FIELD

List of all ZAG peer reviewed publications for period 2018 – 2020 was prepared from which publications in the particular research field was selected and inserted in the Funding and tenders portal. All together ZAG has 14 publications in this field, one scientific review article, five scientific articles, four scientific conference proceedings and four abstracts of scientific conference participation.

No.	Type	Title	Authors	Title of the Journal/Proc./Book	Number, date or freq. of the Journal/Proc./Book	Is Peer-reviewed?	Is Open Access?	DOI	Repository Link	Actions
1	Article in Jou	Investigation of proteinaceous paint layers, composed of egg yolk an	Lea Legan, Klara Fariša, Kelly Peeters, Fit	Scientific Reports	10/1	Yes	Gold	10.1038/s41598-020-75876-y		X
2	Article in Jou	Review: The Use of Bench-Scale Tests to Determine Toxic Organic C	Kelly Peeters, Matija Uršič, Črtomir Tazac	Fire Technology		Yes	Gold	10.1007/s10954-020-05065-y		X
3	Publication in	Reaction to fire properties of wood-waste-based geopolymer panels	KNEŽ, Nataša, KNEŽ, Friderik, DUČMAN, V	The Proceedings of the 17 International Conference Ph		Yes	No			X
4	Publication in	Comparison of Simplified and Advanced Design of Steel Structures in	Jerneja Kolšek, Andrej Rebec	Advanced Materials Research	1147	Yes	No	10.4028/www.scientific.net/AMR.1147.24		X
5	Other	Study of the influencing effect of fire effluents on the proteinaceous	Legan Lea, Retko Klara, Penko Ana, KariČi	Technart 2019, International Conference on Use of Adv		Yes	No			X
6	Other	Comparison of simplified and advanced design of steel structures in f	KOLŠEK, Jerneja, REBEC, Andrej	International Symposium on Advanced Materials, and A		Yes	No			X
7	Other	Comparison of simplified and advanced simulation of a fire in a factor	Kolšek, Jerneja	International Symposium on Advanced Materials, and A		Yes	No			X
8	Other	Ugibi dimnih plinov na predmetu kulturne dediščine	LEGAN, Lea, RETKO, Klara, KARIČIČ, Maša,	Restorator restorator / povzetki strokovnega srečanja		Yes	No			X
9	Article in Jou	Alkali Activated Green Building Materials: Selected Case Study of AB	DUČMAN, Vinka, RADEJA, Hirokana	Ceramics in Modern Technologies	2019, vol. 1, no. 3	Yes	No			X
10	Article in Jou	Life Cycle Assessment of Prefabricated Geopolymeric Façade Claddin	Davor Koviča, Anja Leljak, Friderik Knez,	Materials	13/18	Yes	Gold	10.3390/ma11181921		X
11	Article in Jou	Evaluation of an environmental profile comparison for nanocellulose	Janez Turk, Binež Oven, Ida Poljanšek, A	Journal of Cleaner Production	247	Yes	Gold	10.1016/j.jclepro.2019.119928		X
12	Article in Jou	Effect of creep on behaviour of steel structural assemblies in fires	Peter Čelarek, Miha Kramer and Jerneja	Steel and Composite Structures	Volume 29, Number 4	Yes	No	10.12789/icc-2018-29-4-421		X
13	Publication in	Comparison of Simplified and Advanced Simulation of a Fire in a Fac	Jerneja Kolšek	Advanced Materials Research	1147	Yes	No	10.4028/www.scientific.net/AMR.1147.30		X
14	Publication in	Numerical investigation on design method of tiebar structures expos	PEČENKO, Robert, TOMAŽIČ, Karin, PLANI	International Scholarly and Scientific Research & Inno		Yes	No			X

Figure 1. List of ZAG peer reviewed publications for period 2018 – 2020 as inserted in the Funding and tenders portal

## 3. CONCLUSION

On February 26<sup>th</sup> 2021 ZAGs peer reviewed publications for period 2018 – 2020 in the particular research field were inserted in the Funding and Tenders Portal.

## 4. ANNEXES

1. List of ZAG peer reviewed publications for period 2018 – 2020 in the particular research field

# ANNEX 1

## List of ZAG peer reviewed publications for period 2018 – 2020 in the particular research field

No. in the publications chapter	Data	Category	NOTE	Title	Authors	Title of journal / proceedings / book	Peer reviewed	OA?	Cost [€]	doi
1	LEGAN, Lea, RETKO, Klara, PEETERS, Kelly, KNEZ, Friderik, ROPRET, Polonca. Investigation of proteinaceous paint layers, composed of egg yolk and lead white, exposed to fire-related effects. Scientific reports, ISSN 2045-2322, 2020, article 18961, str. 1-16, ilustr. <a href="https://www.nature.com/articles/s41598-020-75876-y">https://www.nature.com/articles/s41598-020-75876-y</a> , doi: 10.1038/s41598-020-75876-y. [COBISS.SI-ID 35473923]	Scientific article		Investigation of proteinaceous paint layers, composed of egg yolk and lead white, exposed to fire-related effects	LEGAN, Lea, RETKO, Klara, PEETERS, Kelly, KNEZ, Friderik, ROPRET, Polonca	Scientific reports	yes	yes	1.570,00 €	10.1038/s41598-020-75876-y
2	PEETERS, Kelly, URŠIČ, Matija, TAVZES, Črtomir, KNEZ, Friderik. Review : the use of bench-scale tests to determine toxic organic compounds in fire effluents and to subsequently estimate their impact on the environment. Fire technology, ISSN 0015-2684, 2020, str. 1-32, ilustr. <a href="https://link.springer.com/article/10.1007%2Fs10694-020-01065-y">https://link.springer.com/article/10.1007%2Fs10694-020-01065-y</a> , doi: 10.1007/s10694-020-01065-y. [COBISS.SI-ID 41156611]	Scientific review article		Review : the use of bench-scale tests to determine toxic organic compounds in fire effluents and to subsequently estimate their impact on the environment	PEETERS, Kelly, URŠIČ, Matija, TAVZES, Črtomir, KNEZ, Friderik	Fire technology	yes	yes	2.170,00 €	10.1007/s10694-020-01065-y
3	KNEZ, Nataša, KNEZ, Friderik, DUCMAN, Vilma, TAMBURINI, Sergio, NATALI, Marco, BERNARDI, Adriana. Reaction to fire properties of wood waste-based geopolymer panels. V: MARTINS, Isabel M. (ur.), ULSEN, Carina (ur.), VILLAGRAN, Yury (ur.). The Proceedings of the IV International Conference Progress of recycling in the built environment : 11-12 October 2017, Lizbon, Portugal, (RILEM Proceedings, PRO 124). PARIS: RILEM publications. 2018, str. 488-495, ilustr. c. [COBISS.SI-ID 2425703]	Scientific conference proceedings		Reaction to fire properties of wood waste-based geopolymer panels	KNEZ, Nataša, KNEZ, Friderik, DUCMAN, Vilma, TAMBURINI, Sergio, NATALI, Marco, BERNARDI, Adriana	The Proceedings of the IV International Conference Progress of recycling in the built environment	yes			
4	KOLŠEK, Jerneja, REBEC, Andrej. Comparison of Simplified and Advanced Design of Steel Structures in Fire. V: KALOOP, Mosbeh (ur.). Advanced materials and application, International Symposium on Advanced Materials and Application ISAMA 2018, Seoul, South Korea, January 19-21, 2018, (Advanced materials research, ISSN 1662-8985, vol. 1147). Stäfa: Trans Tech Publications. 2018, vol. 1147, str. 24-29. <a href="https://www.scientific.net/AMR.1147.24">https://www.scientific.net/AMR.1147.24</a> , doi: 10.4028/www.scientific.net/AMR.1147.24. [COBISS.SI-ID 2390119]	Scientific conference proceedings	Authors left ZAG	Comparison of Simplified and Advanced Design of Steel Structures in Fire	KOLŠEK, Jerneja, REBEC, Andrej	Advanced materials and application, International Symposium on Advanced Materials and Application ISAMA 2018	yes			
5	LEGAN, Lea, RETKO, Klara, PENKO, Ana, KAVČIČ, Maša, KNEZ, Friderik, ROPRET, Polonca. Study of the influencing effect of fire effluents on the proteinaceous paint layers. V: Technart 2019, International Conference on Use of Analytical Techniques for Characterization of Artworks, 7 May - 10 May 2019, Brugge, Belgium : conference program. Antwerp: University of Antwerp, Flemish Research Centre for the Arts. 2019, str. 394. [COBISS.SI-ID 514082091]	Abstract of scientific conference participation		Study of the influencing effect of fire effluents on the proteinaceous paint layers	LEGAN, Lea, RETKO, Klara, PENKO, Ana, KAVČIČ, Maša, KNEZ, Friderik, ROPRET, Polonca	Technart 2019, International Conference on Use of Analytical Techniques for Characterization of Artworks	yes			
6	KOLŠEK, Jerneja, REBEC, Andrej. Comparison of simplified and advanced design of steel structures in fire. V: ISAMA 2018, The International Symposium on Advanced Materials and Application, Seoul, South Korea on January 19-21, 2018. Seoul: ISAMA. 2018, str. 1-2. [COBISS.SI-ID 2350183]	Abstract of scientific conference participation	Authors left ZAG	Comparison of simplified and advanced design of steel structures in fire	KOLŠEK, Jerneja, REBEC, Andrej	ISAMA 2018, The International Symposium on Advanced Materials and Application	yes			

7	KOLŠEK, Jerneja. Comparison of simplified and advanced simulation of a fire in a factory of XPS panels. V: ISAMA 2018, The International Symposium on Advanced Materials. and Application, Seoul, South Korea on January 19-21, 2018. Seoul: ISAMA. 2018, str. 4-5. [COBISS.SI-ID 2349927]	Abstract of scientific conference participation	Authors left ZAG	Comparison of simplified and advanced simulation of a fire in a factory of XPS panels	KOLŠEK, Jerneja	ISAMA 2018, The International Symposium on Advanced Materials. and Application	yes			
8	LEGAN, Lea, RETKO, Klara, KAVČIČ, Maša, KNEZ, Friderik, ROPRET, Polonca. Vpliv dimnih plinov na predmete kulturne dediščine. Konservator-restavrador : povzetki strokovnega srečanja, ISSN 1854-5289, 2019, str. 151, 193, ilustr. [COBISS.SI-ID 514080043]	Abstract of professional conference participation		Vpliv dimnih plinov na predmete kulturne dediščine	LEGAN, Lea, RETKO, Klara, KAVČIČ, Maša, KNEZ, Friderik, ROPRET, Polonca	Konservator-restavrador : povzetki strokovnega srečanja	yes			
9	DUCMAN, Vilma, RADEKA, Miroslava. Alkali activated green building materials - selected case study of alkali activated aggregate. Ceramics in modern technologies. 2019, vol. 1, no. 3, str. 173-177, ilustr. ISSN 2612-4882. <a href="https://www.techgroup.it/ceramics_in_modern_technologies/view_articles/year_2019_volume_1/issue_no_3_december/alkali_activated_green_building_materials_-_selected_case_study_of_alkali_activated_aggregate">https://www.techgroup.it/ceramics_in_modern_technologies/view_articles/year_2019_volume_1/issue_no_3_december/alkali_activated_green_building_materials_-_selected_case_study_of_alkali_activated_aggregate</a> , DOI: 10.29272/cmt.2018.0006. [COBISS.SI-ID 2406759]	Scientific article		Alkali activated green building materials - selected case study of alkali activated aggregate	DUCMAN, Vilma, RADEKA, Miroslava	Ceramics in modern technologies	yes			10.29272/cmt.2018.0006
10	KVOČKA, Davor, LEŠEK, Anja, KNEZ, Friderik, DUCMAN, Vilma, PANIZZA, Matteo, TSOUTIS, Constantinos, BERNARDI, Adriana. Life cycle assessment of prefabricated geopolymeric façade cladding panels made from large fractions of recycled construction and demolition waste. Materials, ISSN 1996-1944, 2020, vol. 13, iss. 18, str. 1-16, ilustr. <a href="https://www.mdpi.com/1996-1944/13/18/3931/htm">https://www.mdpi.com/1996-1944/13/18/3931/htm</a> , doi: 10.3390/ma13183931. [COBISS.SI-ID 27380739]	Scientific article		Life cycle assessment of prefabricated geopolymeric façade cladding panels made from large fractions of recycled construction and demolition waste	KVOČKA, Davor, LEŠEK, Anja, KNEZ, Friderik, DUCMAN, Vilma, PANIZZA, Matteo, TSOUTIS, Constantinos, BERNARDI, Adriana	Materials	yes	yes	1.207,70 €	10.3390/ma13183931
11	TURK, Janez, OVEN, Primož, POLJANŠEK, Ida, LEŠEK, Anja, KNEZ, Friderik, MALOVRH REBEC, Katja. Evaluation of an environmental profile comparison for nanocellulose production and supply chain by applying different life cycle assessment methods. Journal of cleaner production, ISSN 0959-6526. [Print ed.], Nov. 2019, str. 1-41, ilustr. <a href="https://www.sciencedirect.com/science/article/pii/S0959652619339770?via%3Dihub">https://www.sciencedirect.com/science/article/pii/S0959652619339770?via%3Dihub</a> , doi: 10.1016/j.jclepro.2019.119107. [COBISS.SI-ID 2494311]	Scientific article		Evaluation of an environmental profile comparison for nanocellulose production and supply chain by applying different life cycle assessment methods	TURK, Janez, OVEN, Primož, POLJANŠEK, Ida, LEŠEK, Anja, KNEZ, Friderik, MALOVRH REBEC, Katja	Journal of cleaner production	yes	yes	1600 GBP 1.872,00 €	10.1016/j.jclepro.2019.119107
12	ČEŠAREK, Peter, KRAMAR, Miha, KOLŠEK, Jerneja. Effect of creep on behaviour of steel structural assemblies in fires. Steel and composite structures, ISSN 1229-9367. [Print ed.], 25 nov. 2018, letn. 29, št. 4, str. 423-435, ilustr. <a href="http://www.techno-press.com/content/?page=article&amp;journal=scs&amp;volume=29&amp;num=4&amp;ordernum=1">http://www.techno-press.com/content/?page=article&amp;journal=scs&amp;volume=29&amp;num=4&amp;ordernum=1</a> , <a href="http://dx.doi.org/10.12989/scs.2018.29.4.423">http://dx.doi.org/10.12989/scs.2018.29.4.423</a> , doi: 10.12989/scs.2018.29.4.423. [COBISS.SI-ID 8648801]	Scientific article	Authors left ZAG	Effect of creep on behaviour of steel structural assemblies in fires	ČEŠAREK, Peter, KRAMAR, Miha, KOLŠEK, Jerneja	Steel and composite structures	yes			10.12989/scs.2018.29.4.423

13	KOLŠEK, Jerneja. Comparison of Simplified and Advanced Simulation of a Fire in a Factory of XPS Panels. V: KALOOP, Mosbeh (ur.). Advanced materials and application, International Symposium on Advanced Materials and Application ISAMA 2018, Seoul, South Korea, January 19-21, 2018, (Advanced materials research, ISSN 1662-8985, vol. 1147). Stáfa: Trans Tech Publications. 2018, vol. 1147, str. 30-35. <a href="https://www.scientific.net/AMR.1147.30">https://www.scientific.net/AMR.1147.30</a> , doi: 10.4028/www.scientific.net/AMR.1147.30. [COBISS.SI-ID 2390375]	Scientific conference proceedings	Authors left ZAG	Comparison of Simplified and Advanced Simulation of a Fire in a Factory of XPS Panels	KOLŠEK, Jerneja	Advanced materials and application, International Symposium on Advanced Materials and Application ISAMA 2018	yes			
14	PEČENKO, Robert, TOMAŽIČ, Karin, PLANINC, Igor, HUČ, Sabina, HOZJAN, Tomaž. Numerical investigation on design method of timber structures exposed to parametric fire. V: Conference proceedings : International scholarly and scientific research & Innovation, January 29-30, 2018, Sydney, Australia, (World Academy of Science, Engineering and Technology, ISSN 1307-6892, Part XIX, Vol. 20 (2018), no. 1). [S. l.: s. n. 2018], str. 2164-2173, ilustr. [COBISS.SI-ID 8327009]	Scientific conference proceedings	Authors left ZAG	Numerical investigation on design method of timber structures exposed to parametric fire	PEČENKO, Robert, TOMAŽIČ, Karin, PLANINC, Igor, HUČ, Sabina, HOZJAN, Tomaž	Conference proceedings : International scholarly and scientific research & Innovation	yes			