

**Aime Ruus: insenerihariduse ja tehnikateaduse edendaja Tartu südames**

**Ruus, Aime** delfi.ee 2025 <https://arileht.delfi.ee/artikkel/120374508/aime-ruus-insenerihariduse-ja-tehnikateaduse-edendaja-tartu-sudames>

**Air quality microbiological studies in straw bale and reed houses : poster abstract**

**Raamets, Jane; Ruus, Aime; Ivask, Mari; Nei, Lembit** Biotechnology & Biotechnological Equipment 2021 / S120

<https://doi.org/10.1080/13102818.2020.1871545>

**Assessment of indoor air in Estonian straw bale and reed houses**

**Raamets, Jane; Kutti, Sander; Ruus, Aime; Ivask, Mari** Air Pollution XXV 2017 / p. 193-196 : tab <https://doi.org/10.2495/AIR170191>

[Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Assessment of indoor air quality and hygrothermal conditions of boarders during autumn, winter and spring in two of Estonian straw-bale houses**

**Raamets, Jane; Ruus, Aime; Ivask, Mari** Cold Climate HVAC 2018 : Sustainable buildings in cold climates : proceedings of the 9th

Cold Climate HVAC conference, Kiruna, Sweden, 2018, 12-15 March 2019 / p. 815-823 [https://doi.org/10.1007/978-3-030-00662-4\\_68](https://doi.org/10.1007/978-3-030-00662-4_68)

**Assessment of moisture and mould of hempcrete and straw panels**

**Raamets, Jane; Lokko, Laura; Ruus, Aime; Kalamees, Targo; Muoni, Karin** Journal of physics : conference series 2021 / art.

012194, p. 1-3 <https://doi.org/10.1088/1742-6596/2069/1/012194> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

**Composition of engineering drawing through communication skills and social/material interactions from the semiotic aspect**

Lille, Harri; **Ruus, Aime** 4th International Conference Innovative Materials, Structures and Technologies : IMST2019 : Organised by the Faculty of Civil Engineering, Riga, Latvia, 25–27 September 2019 : book of abstracts 2019 / p. 30-31

<https://dom.lndb.lv/data/obj/770639.html> <https://dom.lndb.lv/data/obj/file/27451559.pdf?attach=true>

**Composition of engineering drawing through communication skills and social/material interactions from the semiotic aspect**

Lille, Harri; **Ruus, Aime** IOP conference series : materials science and engineering 4th International Conference on Innovative Materials, Structures and Technologies (IMST 2019) : 25–27 September 2019, Riga, Latvia 2019 / art. 012011, 6 p

<https://doi.org/10.1088/1757-899X/660/1/012011> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Determination of clay-sand plaster hygrothermal performance : influence of different types of clays on sorption and water vapour permeability**

**Altnäe, Erik; Ruus, Aime; Raamets, Jane; Tungal, Ernst** Cold Climate HVAC 2018 : Sustainable buildings in cold climates : proceedings of the 9th Cold Climate HVAC conference, Kiruna, Sweden, 2018, 12-15 March 2019 / p. 945-955

[https://doi.org/10.1007/978-3-030-00662-4\\_80](https://doi.org/10.1007/978-3-030-00662-4_80)

**Determination of hygrothermal performance of clay-sand plaster : influence of covering on sorption and water vapour permeability**

**Vares, Olgerd; Ruus, Aime; Raamets, Jane; Tungal, Ernst** Energy procedia 2017 / p. 267-272 : ill

<https://doi.org/10.1016/j.egypro.2017.09.719> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Determination of paper plaster hygrothermal performance: influence of different types of paper on sorption and moisture buffering**

**Vares, Maia-Liisa; Ruus, Aime; Nutt, Nele; Kubjas, Ardo; Raamets, Jane** Journal of building engineering 2021 / art. 101830, 8 p.

: ill <https://doi.org/10.1016/j.jobbe.2020.101830> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Engineering drawings as a system of visual signs for depicting the design object**

Lille, Harri; **Ruus, Aime**; Leopold, Cornelia Engineering Graphics BALTRAF-11 : proceedings of the Eleventh International Conference : Tallinn, Estonia, June 9-10, 2011 2011 / p. 105-110 : ill

**Engineering graphics education as the foundation of intercultural engineering communication**

Lille, Harri; **Ruus, Aime** Scientific proceedings of the 12th International Conference on Engineering Graphics BALTRAF 2013 : June 5-7, Riga, Latvia 2013 / p. 135/300-140/300 : ill

**Enhancing CLT construction – Hygrothermal modelling, novel performance criterion, and strategies for end-grain moisture safety**

**Kalbe, Kristo; Pärn, Roland; Ruus, Aime; Kalamees, Targo** Journal of building engineering 2024 / art. 111411

<https://doi.org/10.1016/j.jobbe.2024.111411> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Experimental analysis of moisture uptake and dry-out in CLT end-grain exposed to free water**

**Kalbe, Kristo; Annuk, Alvar; Ruus, Aime; Kalamees, Targo** Journal of Physics: Conference Series 2021 / art. 012050, 8 p. : ill

<https://doi.org/10.1088/1742-6596/2069/1/012050> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Factors affecting the deep renovation of a single-family building – a case study**

**Bergmann, Triinu; Ruus, Aime; Kalbe, Kristo; Kiviste, Mihkel; Tintera, Jiri** E3S Web Conference: Cold Climate HVAC and Energy 2021 2021 / art. 05004, 8 p. : ill <https://doi.org/10.1051/e3sconf/202124605004> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Forms used for graphic representation of an object in engineering graphics [Online resource]**

Lille, Harri; **Ruus, Aime** Scientific proceedings of the 13th International Conference on Engineering Graphics BALTGRAF-13 : June 25-26, 2015, Vilnius 2015 / p. 58-61 : ill <http://doi.org/10.3846/baltgraf.2015.011> [http://www.ester.ee/record=b4512767\\*est](http://www.ester.ee/record=b4512767*est) <https://digi.lib.ttu.ee/ii/?3151>

**From learning outcomes to the team of advisers**

**Soon, Ants; Ruus, Aime** Scientific proceedings of the 12th International Conference on Engineering Graphics BALTGRAF 2013 : June 5-7, Riga, Latvia 2013 / p. 199/300-208/300 : ill

**Graphic representation of an object in engineering as a semiotic sign**

Lille, Harri; **Ruus, Aime** 17th International Conference on Geometry and Graphics (ICGG 2016) : 4-8 August 2016, Beijing, China 2016 / p. 1-6

**Humidity impact on air quality in straw- and reed-bale houses**

**Raamets, Jane; Nei, Lembit; Ruus, Aime; Ivask, Mari; Muoni, Karin** Environments 2025 / art. 297 <https://doi.org/10.3390/environments12090297>

**Hygrothermal performance of lime-based thermal insulation mortars: water absorption, hygroscopic sorption, and water vapour permeability**

**Ruus, Aime; Kaeramaa, Ave-Ly;** Kirtsi, Karin; Mihkelsoo, Madis; **Kiviste, Mihkel; Raamets, Jane** Journal of Physics: Conference Series 2023 / 8 p. : ill <https://doi.org/10.1088/1742-6596/2654/1/012083> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Hygrothermal performance of paper plaster: influence of different types of paper and production methods on moisture buffering**

**Soolepp, Mihkel; Ruus, Aime; Nutt, Nele; Raamets, Jane; Kubjas, Ardo** E3S Web of Conferences : 12th Nordic Symposium on Building Physics (NSB 2020) : Tallinn, Estonia, September 6-9, 2020 2020 / art. 14010, 6 p <https://doi.org/10.1051/e3sconf/202017214010> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Inadequacies of heritage protection regulations in an era of shrinking communities : a case study of Valga, Estonia**

**Tintera, Jiri; Kotval, Zenia; Ruus, Aime; Tohvri, Epi** European planning studies 2018 / p. 2448–2469 : ill <https://doi.org/10.1080/09654313.2018.1518409> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Indoor air microbiological quality in reed-bale and straw-bale houses in Estonia = Siseõhu mikrobioloogiline kvaliteet Eesti roo- ja põhupakist elamutes**

**Raamets, Jane** 2020 [https://www.ester.ee/record=b5386390\\*est](https://www.ester.ee/record=b5386390*est) <https://digikogu.taltech.ee/et/Item/e5c72b6e-c7fa-4744-bbd2-89df4e235339>

**Influence of production on hemp concrete hygrothermal properties : sorption, water vapour permeability and water absorption**

**Ruus, Aime; Koosapoeg, Tarmo; Pau, Markus; Kalamees, Targo; Põldaru, Mattias** Journal of Physics : Conference Series 2021 / art. 012004, 9 p. : ill <https://doi.org/10.1088/1742-6596/2069/1/012004> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

**Influence of Silane on water absorption properties of lime-based thermal insulation and renovation mortars**

**Ruus, Aime; Oja, Kai-Liis; Mihkelsoo, Karin; Mihkelsoo, Madis; Tungel, Ernst; Kiviste, Mihkel** Multiphysics and Multiscale Building Physics : Proceedings of the 9th International Building Physics Conference (IBPC 2024) ; Volume 1: Moisture and Materials 2025 / p. 467-473 [https://doi.org/10.1007/978-981-97-8305-2\\_66](https://doi.org/10.1007/978-981-97-8305-2_66)

**Lost in regulations : Digitalization as the key to transparent and efficient building permit evaluation in Estonia**

**Peet, Pille-Riin; Pikas, Ergo; Ruus, Aime** Proceedings of the 2025 European Conference on Computing in Construction 2025 / 8 p <https://doi.org/10.35490/EC3.2025.432>

**Novella Uiga: küberfüüsikaliste süsteemide eriala sobib ideaalselt ka naistele ning selle lõpetanutele on valla paljud uksed**

digi.geenius.ee 2023 [Novella Uiga: küberfüüsikaliste süsteemide eriala sobib ideaalselt ka naistele ning selle lõpetanutele on valla paljud uksed](#)

**Numerical simulation of CLT moisture uptake and dry-out following water infiltration through end-grain surfaces**

Brandstätter, Florian; Kalbe, Kristo; Autengruber, Maximilian; Lukacevic, Markus; Kalamees, Targo; **Ruus, Aime; Annuk, Alvar;** Füssl, Josef Journal of Building Engineering 2023 / art. 108097 <https://doi.org/10.1016/j.jobe.2023.108097> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**On the concepts of representation and communication in the course of engineering graphics**

Lille, Harri; **Ruus, Aime** Joint conference "Teaching mathematics : retrospective and perspectives" : 13th International Conference and 8th Nordic-Baltic Conference "Agrometrics" : 30 May - 1 June 2012 Tartu, Estonia : proceedings 2012 / p. 167-176 : ill [https://artiklid.elnet.ee/record=b2658863\\*est](https://artiklid.elnet.ee/record=b2658863*est)

### **Preliminary investigation into mechanical properties of clay reinforced with natural fibres**

**Peetsalu, Priidu;** Resev, Jüri; Ruus, Aime; Menind, Andres; **Kers, Jaan; Sepper, Sirli;** Olt, Jüri Agronomy research 2010 / S1, p. 201-207 : ill

### **Representation of an object as a semiotic sign in engineering**

Lille, Harri; **Ruus, Aime** ICGG 2018 - proceedings of the 18th International Conference on Geometry and Graphics : 40th Anniversary- Milan, Italy, August 3–7, 2018 2019 / p. 2201-2204 [https://doi.org/10.1007/978-3-319-95588-9\\_202](https://doi.org/10.1007/978-3-319-95588-9_202) [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **A review of microbial and chemical assessment of indoor surfaces**

Mihucz, Victor G.; **Ruus, Aime; Raamets, Jane;** Wimmerová, Lenka; Vera, Teresa; Bossi, Rossana; Huttunen, Kati Applied Spectroscopy Reviews 2022 / p. 817-889 <https://doi.org/10.1080/05704928.2021.1995870> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A review of non-residential building renovation and improvement of energy efficiency: office buildings in Finland, Sweden, Norway, Denmark, and Germany**

**Kiviste, Mihkel;** Musakka, Sami; **Ruus, Aime;** Vinha, Juha Energies 2023 / art. 4220, 26 p <https://doi.org/10.3390/en16104220> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Revitalization of wooden apartments as a tool to deal with shrinkage - case study from Valga**

**Ruus, Aime; Tintera, Jiri** Proceedings of the I Forum Wood Building Baltic, 2019 : [27.02-1.03.2019, Tallinn] 2019 / p. 68-69 : ill [https://www.ester.ee/record=b5197207\\*est](https://www.ester.ee/record=b5197207*est)

### **Revitalization of wooden apartments as a tool to deal with shrinkage - case study from Valga**

**Ruus, Aime; Tintera, Jiri** Journal of sustainable architecture and civil engineering 2019 / p. 16-24 : ill <https://doi.org/10.5755/j01.sace.25.2.22074>

### **Sampling and analysis techniques for inorganic air pollutants in indoor air**

Villanueva, Florentina; Rodenas, Milagros; **Ruus, Aime** Applied spectroscopy reviews 2022 / p. 531-579 <https://doi.org/10.1080/05704928.2021.2020807> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Semiotic aspects of engineering graphics**

Lille, Harri; **Ruus, Aime** 10th International Conference on Engineering Graphics BALTGRAF-10 : June 4-5, 2009, Vilnius, Lithuania : conference proceedings 2009 / p. 83-91 : ill

### **Siseõhu kvaliteet põhu- ja pilliroopakidest seintega elumajades**

**Raamets, Jane; Ruus, Aime; Ivask, Mari; Nei, Lembit; Muoni, Karin** Agraarteadus = Journal of agricultural science 2020 / lk. 84–95 : ill <https://doi.org/10.15159/jas.20.05> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Teadlane soovib: milliseid looduslikke viimistlusmaterjale võiks värv ja tapeedi asemel kasutada?**

Traks, Kristina postimees.ee 2023 <https://teadus.postimees.ee/7711547/teadlane-soovib-milliseid-looduslikke-viimistlusmaterjale-voiks-varvi-ja-tapeedi-ase- mel-kasutada>

### **Technical state, renovation need, and performance of renovation solutions of Estonian wooden log houses**

**Põdra, Alois Andreas; Allas, Gert Air; Ruus, Aime;** Lutsepp, Elo; Kalamees, Targo 5th International Conference Forum Wood Building Baltic : 26-28 February 2024, Tallinn, Estonia : proceedings 2024 / p. 204-205 <https://digikogu.taltech.ee/et/Item/22318c67-e0ef-42f1-88c7-34c9d9677b17> [https://www.ester.ee/record=b5668645\\*est](https://www.ester.ee/record=b5668645*est)

### **Technical state, renovation need, and performance of renovation solutions of Estonian wooden log houses**

**Põdra, Alois Andreas; Allas, Gert Air; Ruus, Aime;** Lutsepp, Elo; Kalamees, Targo Journal of sustainable architecture and civil engineering 2024 / p. 35-52 <https://doi.org/10.5755/j01.sace.34.1.35606> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **The Effects of Natural Paint on the Moisture Buffering Ability of Paper Plaster**

**Nutt, Nele; Kubjas, Ardo; Nei, Lembit; Ruus, Aime** Latvian journal of physics and technical sciences 2020 / p. 51-60 : ill <https://doi.org/10.2478/lpts-2020-0027> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Urban brownfields redevelopment in Estonia : local government's perception = Ponowne zagospodarowanie zdegradowanych terenów miejskich w Estonii : podejście lokalnych władz**

**Tintera, Jiri; Ruus, Aime** VI Międzynarodowa Konferencja Innowacyjne Rozwiązania Rewitalizacji Terenów Zdegradowanych oraz III Międzynarodowa Konferencja Sieci CABERNET Zarządzanie terenami miejskimi : Ustroń, 2-4 października 2012 2012 / [14 p.] : ill

### **Urban regeneration strategies for shrinking post-soviet European communities : a case study of Valga, Estonia = Kahanevate linnade elukeskkonna taaselustamine Valga linna näitel**

**Tintera, Jiri** 2019 <https://digikogu.taltech.ee/et/Item/2317eefe-d76f-41ad-b463-1a59a1a0a301>

#### **Uued inimesed ja positsioonid**

**Pappel, Ingrid; Ruus, Aime; Stein, Mari-Klara; Tüür, Danel; Spuul, Pirjo** Mente et Manu 2022 / lk. 37-39 : portr  
[https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

#### **Water vapour transmission properties of linseed oil paint**

**Šemjakin, R.; Ruus, Aime; Kirtsi, Karin; Tungel, Ernst** Agronomy research 2016 / p. 1107-1115 : ill [http://agronomy.emu.ee/wp-content/uploads/2016/05/Vol14\\_S1\\_Semjakin.pdf#abstract-4412](http://agronomy.emu.ee/wp-content/uploads/2016/05/Vol14_S1_Semjakin.pdf#abstract-4412) [http://www.ester.ee/record=b1787401\\*est](http://www.ester.ee/record=b1787401*est) [Journal metrics at Scopus](#) [Article at Scopus](#)

#### **Wetting circumstances, expected moisture content, and drying performance of CLT end-grain edges based on field measurements and laboratory analysis**

**Kalbe, Kristo; Kalamees, Targo; Kukk, Villu; Ruus, Aime; Annuk, Alvar** Building and environment 2022 / art. 109245  
<https://doi.org/10.1016/j.buildenv.2022.109245> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)