

Acceleration data acquisition and processing system for structural health monitoring

Herranen, Henrik; Kuusik, Alar; Saar, Tõnis; Reidla, Marko; Land, Raul; Märten, Olev; Majak, Jüri 2014 IEEE International Workshop On Metrology For Aerospace : May 29-30, 2014, Benevento, Italy : proceedings 2014 / p. 244-248 : ill

Analysis of mechanical vibrations caused by eccentricity in a slow-speed slotless permanent magnet generator

Tiirats, Tauno; Pabut, Ott; Kallaste, Ants; Herranen, Henrik; Naar, Hendrik; Vaimann, Toomas PQ2014 : the 9th International 2014 Electric Power Quality and Supply Reliability Conference (PQ) : June 11-13, 2014, Rakvere, Estonia : proceedings 2014 / p. 237-241 : ill

Chirp-based piezo-impedance measurement

Saar, Tõnis; Reidla, Marko; Märten, Olev; Land, Raul; Min, Mart; Herranen, Henrik Proceedings : WISP'2013, 8th IEEE International Symposium on Intelligent Signal Processing 2013 / [4] p. : ill <https://ieeexplore.ieee.org/document/6657487>

Comparative study of the VARTM, VAP and MTI vacuum infusion processes

Aruniit, Aare; Herranen, Henrik; Miller, Kristen Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 71-76 : ill <https://doi.org/10.4028/www.scientific.net/KEM.674.71> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Convergence theorem for the Haar wavelet based discretization method

Majak, Jüri; Shvartsman, Boris; Kirs, Maarjuss; Pohlak, Meelis; Herranen, Henrik Composite structures 2015 / p. 227-232 <https://doi.org/10.1016/j.compstruct.2015.02.050> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Design and manufacturing of composite laminates with structural health monitoring capabilities

Herranen, Henrik; Majak, Jüri; Tšukrejev, Pavel; Karjust, Kristo; Märten, Olev Procedia CIRP 2018 / p. 647-652 : ill <https://doi.org/10.1016/j.procir.2018.03.128> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Design and testing of sandwich structures with different core materials

Herranen, Henrik; Pabut, Ott; Eerme, Martin; Majak, Jüri; Pohlak, Meelis; Kers, Jaan; Saarna, Mart; Allikas, Georg; Aruniit, Aare Materials science = Medžiagotyra 2012 / p. 45-50 : ill https://www.researchgate.net/publication/268366546_Design_and_Testing_of_Sandwich_Structures_with_Different_Core_Materials

Design of functionally graded sandwich panels

Pohlak, Meelis; Majak, Jüri; Karjust, Kristo; Herranen, Henrik; Lend, Henri ICCS17 : 17th International Conference on Composite Structures : Portugal 17-21 June 2013 : book of abstracts 2013 / p. 55

Design of light-weight sandwich panels for trailers

Allikas, Georg; Kers, Jaan; Aruniit, Aare; Herranen, Henrik; Eerme, Martin; Majak, Jüri; Pohlak, Meelis; Pabut, Ott ECCM15 - 15th European Conference on Composite Materials : Venice, Italy, 24-28 June 2012 2012 / 8 p. : ill https://www.researchgate.net/publication/290060877_Design_of_light-weight_sandwich_panel_for_trailers

Design optimization of smart composite structures with embedded devices = Integreeritud elektroonikakomponentidega targa komposiitmaterjali väljatöötamine

Herranen, Henrik 2014 https://www.ester.ee/record=b3092011*est

Detailid arvutisse skänneri abiga : [TTÜ masinaehituse instituudi toodetud optiliste skännerite ATOS II 400, ARGUS, ARAMIS 2M, TRITOP tutvustus]

Herranen, Henrik Inseneeria 2009 / 4(12), lk. 32-33 : ill https://artiklid.elnet.ee/record=b1446849*est

Durability performance of semiconductor strain gauges in GFRP laminate

Herranen, Henrik; Saar, Tõnis; Gordon, Rauno; Pohlak, Meelis; Lend, Henri Proceedings of the 6th ECCOMAS Thematic Conference on Smart Structures and Materials, SMART 2013 : Turin, Italy, June 24-26, 2013 2013 / p. 1-14 : ill

Embedded electronics influence on the strength of carbon fiber laminate

Herranen, Henrik; Kers, Jaan; Preden, Jürjo-Sören; Talalaev, Robert; Eerme, Martin; Majak, Jüri; Lend, Henri; Allikas, Georg Advances in applied materials and electronics engineering III 2014 / p. 239-243 <https://doi.org/10.4028/www.scientific.net/AMR.905.239> [Article at Scopus](#)

Experimental modal analysis of maritime composite panel

Gavrijaševa, Alina; Märten, Olev; Land, Raul; Saar, Tõnis; Herranen, Henrik; Majak, Jüri; Reidla, Marko; Kuusik, Alar BEC 2016 : 2016 15th Biennial Baltic Electronics Conference : proceedings of the 15th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 3-5, 2016, Tallinn, Estonia 2016 / p. 143-146 : ill http://www.ester.ee/record=b2150914*est

Experimental study of steered fibre composite production

Haavajõe, Anti; Mikola, Madis; Osali, Hadi; Pohlak, Meelis; Herranen, Henrik Proceedings of the Estonian Academy of Sciences 2017 / p. 295-299 : ill <https://doi.org/10.3176/proc.2017.3.09> http://www.ester.ee/record=b2355998*est https://artiklid.elnet.ee/record=b2824306*est [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Fatigue performance of semiconductor strain gauges in GFRP laminate

Herranen, Henrik; Saar, Tõnis; **Gordon, Rauno**; **Pohlak, Meelis**; **Lend, Henri** Advances in applied materials and electronics engineering III 2014 / p. 244-248 <https://doi.org/10.4028/www.scientific.net/AMR.905.244> [Article at Scopus](#)

Foreign object induced fiber undulation influence on mechanical properties of composite laminate

Herranen, Henrik; **Lend, Henri**; **Kuusik, Alar**; Czichon, Steffen; **Kers, Jaan**; **Piirlaid, Marko** International Conference on Composite Materials 2013 (ICCM-19) : Montreal, Quebec, Canada, 28 July-2 August 2013 : [proceedings] 2013 / p. 837-844

Haruldane kiiver diagnoosib ajutraumasid

Kalberg, Signe; **Herranen, Henrik** Eesti Päevaleht 2015 / lk. 23 <https://epl.delfi.ee/artikkel/73155313/haruldane-kiiver-diagnoosib-ajutraumasid>

Manufacturing of steered fiber composite laminate

Haavajõe, Anti; **Mikola, Madis**; **Herranen, Henrik**; **Pohlak, Meelis** Proceedings of the 10th International Conference of DAAAM Baltic Industrial Engineering, 12-13th May 2015, Tallinn, Estonia 2015 / p. 21-26 : ill

Mehaanikainseneri käsiraamat

2015

Mehaanikainseneri käsiraamat

2013 https://www.ester.ee/record=b3007631*est

Mehaanikainseneri käsiraamat

2012 https://www.ester.ee/record=b2860301*est

Mehhanotehnika ja metallide käsiraamat

2012 http://www.ester.ee/record=b2860365*est

Model validation and structural analysis of a small wind turbine blade

Pabut, Ott; **Allikas, Georg**; **Herranen, Henrik**; **Vene, Karl-Kristo**; **Talalaev, Robert** Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 1 2012 / p. 74-79 : ill

Modeling constitutive relation for woven polymer-based composites

Majak, Jüri; **Pohlak, Meelis**; **Küttner, Rein**; **Eerne, Martin**; **Herranen, Henrik** NATO Advanced Research Workshop : Textile Composites : May 18-22, 2009, Kiev, Ukraine 2009 / [3] p

Nanoscale vibration analysis of graphene sheets using nonlogical elasticity theory

Majak, Jüri; **Kirs, Maarjus**; **Mikola, Madis**; **Heero, Marek**; **Herranen, Henrik** ICCE 21 proceedings 2013

Particulate filled composite plastic materials from recycled glass fibre reinforced plastics

Aruniit, Aare; **Kers, Jaan**; **Goljandin, Dmitri**; **Saarna, Mart**; **Tall, Kaspar**; **Majak, Jüri**; **Herranen, Henrik** Materials science = Medžiagotyra 2011 / p. 276-281 : ill

Portable qEEG and HD-tCS device for point-of-injury traumatic brain injury diagnostics

Strisland, Frode; Vedum, Jon; Liverud, Anders; Dalgard, Steffen; Brødreskift, Tomas; Albert, Bruno; Noyvirt, Alexandre; **Vene, Karl**; **Herranen, Henrik**; **Kirs, Maarjus** Phealth 2017 : proceedings of the 14th International Conference on Wearable Micro and nano Nano Technologies for Personalized Health : 14-16 May 2017, Eindhoven, The Netherlands 2017 / p. 198-203 <https://doi.org/10.3233/978-1-61499-761-0-198> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Selected aspects of current challenges in composite product development for automotive and aerospace industry

Czichon, Steffen; Köhnke, Jessica; Preisler, Andreas; **Herranen, Henrik** Composite materials and structures in aerospace engineering 2016 / p. 51-63 <http://dx.doi.org/10.4028/www.scientific.net/AMM.828.51>

Selection of parameters in adhesive bonding of composite structures

Kers, Jaan; **Saarna, Mart**; **Peetsalu, Priidu**; **Aruniit, Aare**; **Majak, Jüri**; **Pohlak, Meelis**; **Herranen, Henrik** 20th International Baltic Conference Materials Engineering 2011, October 27-28, Kaunas, Lithuania : book of abstracts 2011 / p. 53

The influence of embedded electronics on the structural performance in carbon fiber laminates

Herranen, Henrik; **Kers, Jaan**; **Preden, Jürjo-Sören**; **Talalaev, Robert**; **Eerne, Martin**; **Majak, Jüri**; **Pohlak, Meelis**; **Allikas, Georg**; **Pabut, Ott**; **Lend, Henri** Proceedings of the International Conference on Mechanics of Nano, Micro and Macro Composite Structures : 18 to 20 June 2012 2012 / [2 p.]

Wear resistance influencers of particle reinforced polymer composite

Aruniit, Aare; **Kers, Jaan**; **Krumme, Andres**; **Antonov, Maksim**; **Allikas, Georg**; **Herranen, Henrik**; **Pabut, Ott** Proceedings of

Visualization of strain distribution around the edges of a rectangular foreign object inside the woven carbon fibre specimen

Herranen, Henrik; Allikas, Georg; Eerme, Martin; Vene, Karl-Kristo; Otto, Tauno; Gregor, Andre; Kirs, Maarjus; Mädamürk, Karl Estonian journal of engineering 2012 / p. 279-287 : ill https://artiklid.elnet.ee/record=b2527774*est