

# **Prof. Dr. Levente Csóka**

**Professor**

Eötvös Loránd University, Faculty of Informatics  
Savaria Institute of Technology  
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## **ACADEMIC DEGREES**

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- 2020/11**      **Calculus course**  
University of Pennsylvania, Arts and Sciences, Department of Mathematics, USA
- 2017/11**      **MTA doctorate**  
VI. Engineering Sciences, Material Science and Technology. Hungarian Academy of Sciences, Budapest, Hungary
- 2007/06**      **Ph.D. in Material Science and Technology**  
Title of dissertation: Application of the Fourier transformation on the density function of trees  
University of West Hungary, Sopron, Hungary
- 2005/06**      **M.Sc. in Pulp and paper technology**  
Title of thesis: Cavitation assisted delignification of wheat straw  
University of West Hungary, Sopron, Hungary
- 2002/06**      **M.Sc. in Wood Science engineering**  
Title of thesis: Damping characteristics of wood  
University of West Hungary, Sopron, Hungary

## **WORKPLACES**

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- 2020 –**      **Professor**  
Eötvös Loránd University, Faculty of Informatics: Savaria Institute of Technology
- 2019 – 2020**      **R&D researcher**  
Continental Wood Ltd.
- 2003 – 2019**      **Teaching assistant - Professor**  
University of Sopron
- 2009 –**      **CEO**  
celltech-paper Ltd.

## **RESEARCH INTEREST**

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- Application of nanotechnology in the pulp and paper industry
- Nanoparticle synthesis by green chemistry
- Cellulose and biomacromolecule composites
- Nanocrystalline cellulose thin films
- Cavitation assisted extraction of hemp seeds
- Cavitation assisted wastewater remediation

## **TEACHING ACTIVITY**

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### **Lecturer**

- Course (BSc): Physics I-II, Basic of Mathematics, Heat Engines

## **LANGUAGES**

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- English: advanced level (B1)
- Japan: basic level (A2)
- Hungarian: native

## **SOFTWARES**

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- CAD software: Comsol Multiphysics

## **ACTIVITIES IN SCIENTIFIC AND PROFESSIONAL ORGANIZATIONS**

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### **Scientific journals – reviewer**

- Levente Csóka webpage at publons: <https://publons.com/a/2414577>
- Performed 332 reviews for journals including *Ultrasonics Sonochemistry* and *Chemical Engineering, Chemical Engineering and Processing: Process Intensification*; placing in the 99th percentile for verified review contributions on Publons up until November 2020

### **Scientific activation for students**

25 graduate students, out of 5 from abroad: Antti-Jussi Rajala, Niraj Panjyijar, Chabbin Pokhrel, Asylzat Iskalieva, Vinay Khatri.

11 scientific student work: 4 Faculty level 1<sup>st</sup> prized, 1 National level 1<sup>st</sup> and 3<sup>rd</sup> prized

23 supervision of the scientific work of international students

- Vinayak Sutkar MSc student from India for 2 months
- Antti-Jussi Rajala BSc student from Finland for 5 months
- Amit Vinod Mahulkar PhD student from India for 3 months
- Praveen Chandak BSc student from India for 2.5 months
- Dhani Raj Bogati BSc student from Nepal for 3 months
- Niraj Panjyijar BSc student from Nepal for 3 months
- Asylzat Iskalieva BSc student from Russia for 3 months
- Chabbin Pokhrel BSc student from Nepal for 3 months
- Jiakuan Wang BSc student from China for 3 months
- Qing Zhao BSc student from China for 3 months
- Mandar Badve PhD student from India for 2 months
- Vinay Khatri MSc student from India for 8 months
- Alexander Chernyaev student from Russia for 3 months
- Eduar Korolevskij student from Russia for 3 months
- Pankaj Patil student from India for 2 months
- Abhisek Dash student from India for 3 months
- Dimitrios Koutsianitis PhD student from Greece for 16 months
- Yanin Hosakun PhD student from Thailand for 36 months
- Aranzazu Sierra Fernandez PhD student from Spain for 2 months
- Pornpichaya Thawepornpuriphong MSc student from Thailand for 3 months
- Watthanavut Phathidee MSc student from Thailand for 3 months
- Dimitrios Tsalagkas PhD student from Greece for 36 months
- Worakan Hosakun MSc student from Thailand for 24 months

- **Work as PhD supervisor**
- **Katalin Halász:** Effect of montmorillonite nanoplatelet, cellulose micro- and nanocrystal on the properties of poly(lactic acid) matrix (Awarded in 2014)
- **Veronika Nagy:** Cellulose fibre functionalization by SCO materials for smart products (Awarded in 2015)
- **Dimitrios Tsalagkas:** Bacterial cellulose thin-films for energy harvesting applications (Awarded in 2015)
- **Yanin Hosakun:** Preparation of bacterial cellulose-protein fibril membranes with catalytic silver ions for CO<sub>2</sub>/CH<sub>4</sub> separation (Awarded in 2017)
- **Éva Annamária Papp:** Fafelületek attribútumainak elemzése a nedvesíthetőség vonatkozásában, különböző fajokon (Awarded in 2018)
- **János Farkas:** Forgácsolt polimer alkatrészek gyártási és termékváltási idejének optimalizálása (Awarded in 2018)
- **Worakan Hosakun:** Bacterial cellulose-Silk fibroin-Polyvinyl alcohol-Silver nanocubes for flexible and transparent organic light-emitting diode display (Awarded in 2019)
- **Charu Agarwal:** Ultrasonic extraction of bioactive compounds from cannabis sativa L. for the green reduction of graphene oxide on cellulose fibres (Awarded in 2019)

## **GRANTS, AWARDS, PRIZES**

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- 2003 JET Japan Fellowship award
- 2009 TAPPI NanoConf, International Conference, Edmonton, Canada, poster competition II. place
- 2010 Excellent Researcher of University of West Hungary Award
- 2010 Postdoctoral Fellowship Award at North Carolina State University
- 2011 Forest Product Society Convention, International Conference, Portland, OR, USA, poster competition I. place
- 2013 Georg Marra Best paper Award I. place, Society of Wood Science and Technology, USA
- 2014 National Excellence Fellowship Award, Tokyo, Noshiro, Japan
- 2017 Hungarian Knight Merit

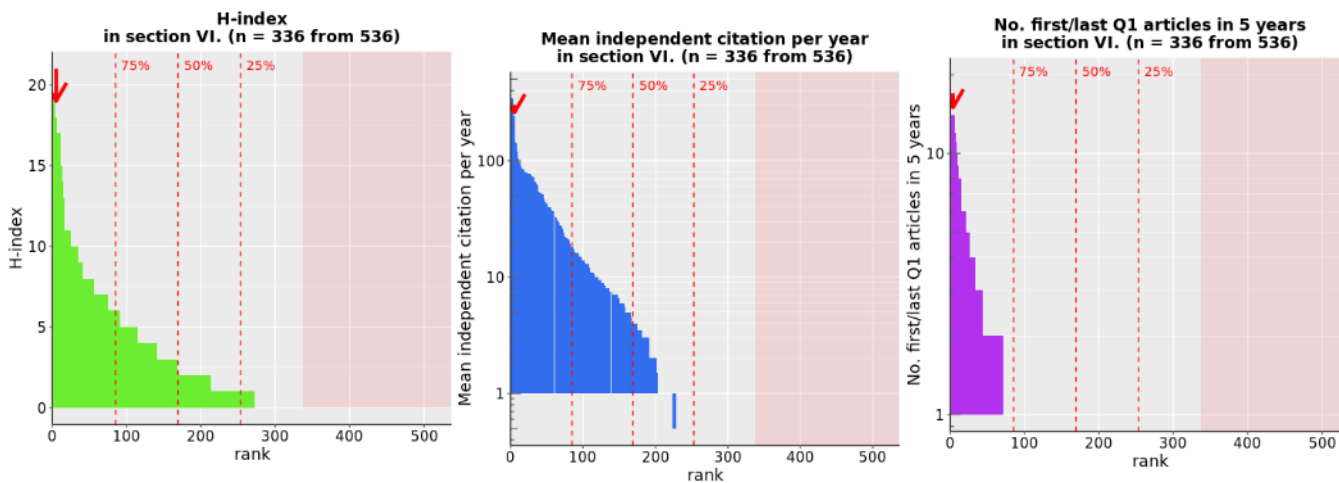
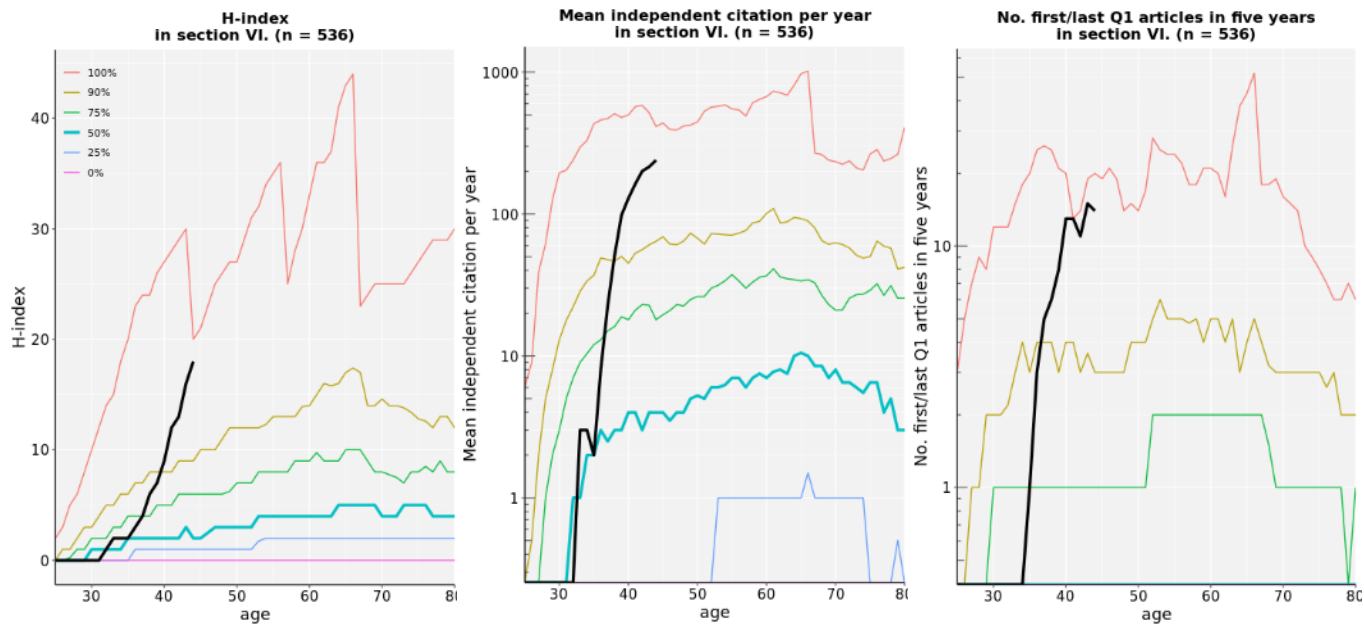
## **PUBLICATIONS**

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Complete publications at „Magyar tudományos Művek Tárában”:

[https://vm.mtmt.hu//search/slist.php?nwi=1&initd=1&ty\\_on=1&url\\_on=1&cite\\_type=2&orderby=3D1a&location=mtmt&stn=1&AuthorID=10012788](https://vm.mtmt.hu//search/slist.php?nwi=1&initd=1&ty_on=1&url_on=1&cite_type=2&orderby=3D1a&location=mtmt&stn=1&AuthorID=10012788)

# SCIENTIFIC ACHIEVEMENTS



- Percentile of H-index at age 44: 98.3%-99.1% (H-index=18)
- Percentile of mean independent citation per year at age 44: 98.3%-98.8% (Mean independent citation per year\*=239.5)
- Percentile of first/last Q1 articles in 5 years at age 44: 98.6%-99.7%
- (Number of first/last Q1 articles in 5 years=14)

## **PATENTS**

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- 230 259 Method for wood liquefaction as adhesive for particle board manufacturing
- 230 754 Method for lignocellulosic material digestion
- 230 776 Method for hydrodynamic cavitation assisted water treatments
- 231 048 Method for paper and other based sand paper recycling
- 231 065 Method for hydrodynamic cavitation assisted water treatments