CURRICULUM VITAE

Personal data:

Name: **Groşan Teodor Silviu**

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Academic position

Professor, Department of Mathematics, Faculty of Mathematics and Computer Science, section Matehamtics, Babeş-Bolyai University, Cluj-Napoca, Romania

Education

B.Sc.: Faculty of Mathematics and Computer Science, section Matehamtics, "Babeş-Bolyai" University: 1993-1997.
B.Sc.: Faculty of Mathematics and Computer Science, section Computer Science, "Babeş-Bolyai" University: 1994-2000.
M.Sc Student: Faculty of Mathematics and Computer Science, section Fluid Mechanics, "Babeş- Bolyai" University: 1997-1998.
Ph.D. Student: Faculty of Mathematics and Computer Science, section Fluid Mechanics, "Babeş-Bolyai" University: 1998-2002.

Ph.D. in Mathematics

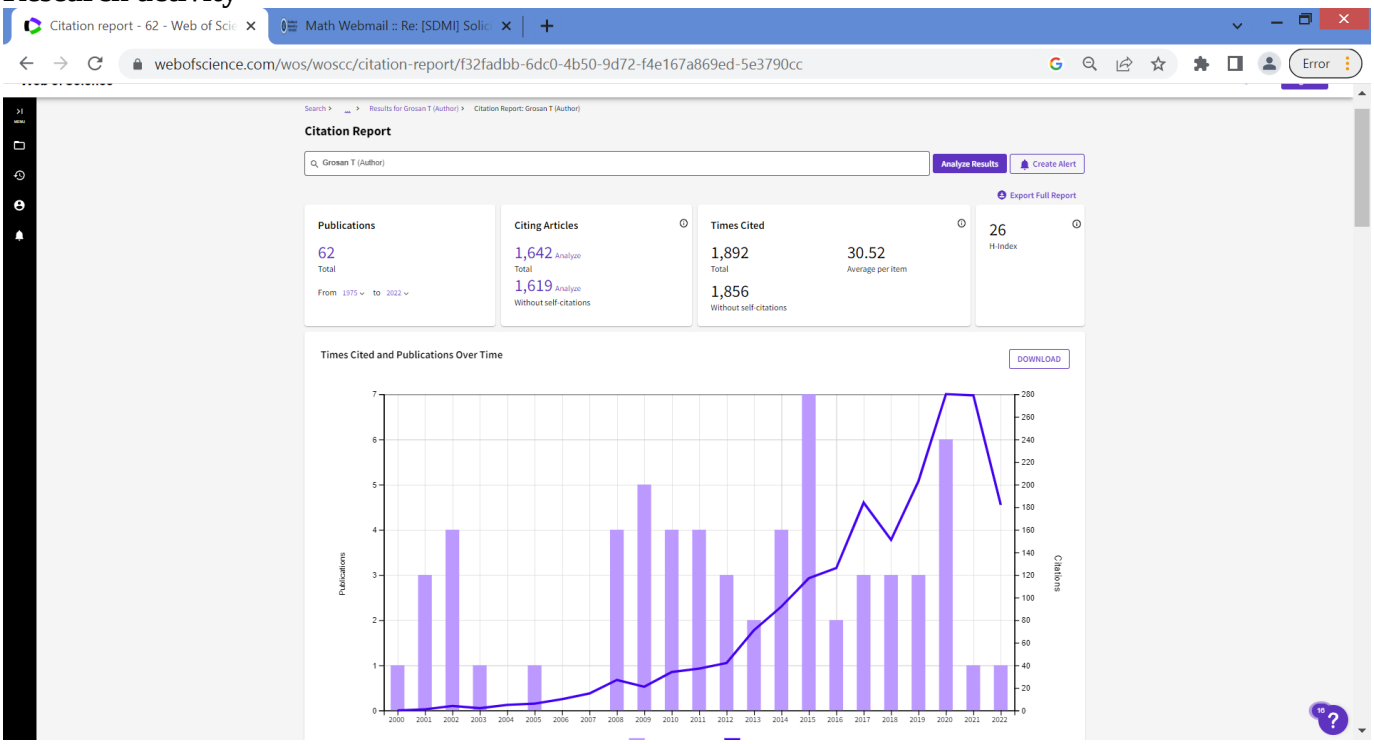
October, 2002: *Convection Problems in Porous Media*, supervisor: Prof. Ioan Pop .
Faculty of Mathematics and Computer Science, Babeş-Bolyai University, Cluj-Napoca
Romania

Research grants:

1. Convection problems in porous media saturated by non-Newtonian fluids, 2001, code B09, ANSTI (Romanian government)
2. Transfer phenomena in porous media and viscous fluids with variable physical properties, code CEEX -ET-90, UEFISCU (Romanian government), https://math.ubbcluj.ro/~tgrosan/ceex90.html
3. Transfer phenomena in nanofluids and nanofluids saturated porous media, PN-II-RU-TE-2011-3-0013, UEFISCDI, (Romanian government), https://math.ubbcluj.ro/~tgrosan/TE0013.html
4. Transfer phenomena in special porous media (SpePoM), Project code: PN-III-P4-PCE-

2021-0993, Contract: PCE 69/2022, UEFISCDI (Romanian government), https://math.ubbcluj.ro/spepom/

Research activity



Papers (selective list)

1. T. Grosan, F.O. Patrulescu, I. Pop, Natural convection in a differentially heated cavity filled with a Brinkman bidisperse porous medium, INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT & FLUID FLOW, Vol. 33 (10), pp. 3309-3326, 2023. DOI: 10.1108/HFF-10-2022-0600
2. I. Pop, T. Grosan, C. Revnic, A. V. Rosca, Unsteady flow and heat transfer of nanofluids, hybrid nanofluids, micropolar fluids and porous media: a review, THERMAL SCIENCE AND ENGINEERING PROGRESS, AVAILABLE online 2 November 2023, 102248. DOI: 10.1016/j.tsep.2023.102248
3. S. Micula, T.; Grosan, I. Pop, Natural convection in a porous square cavity filled with a nanofluid: A numerical study using spline functions, JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, 147(12), pp. 6931-6939, 2021. DOI 10.1007/s10973-021-11001-z
4. MA Sheremet, T Grosan, I Pop, Thermal convection in a chamber filled with a nanosuspension driven by a chemical reaction using Tiwari and Das' model, INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT & FLUID FLOW 31(1), pp. 452-470, 2021. https://doi.org/10.1108/HFF-05-2020-0282.
5. C Revnic, T Grosan, MA Sheremet, I Pop Numerical simulation of MHD natural convection flow in a wavy cavity filled by a hybrid Cu-Al2O3-water nanofluid with discrete heating, APPLIED MATHEMATICS AND MECHANICS-ENGLISH EDITION, 41 (9), 1345-1358, 2020. DOI: 10.1007/s10483-020-2652-8

Conferences (selective list)

1. 5th International Conference on Applications of Porous Media 2013, August 25-28, Cluj-Napoca, Romania
2. 3rd International Eurasian Conference on Mathematical Sciences & Applications, 25-28 August 2014, Vienna, Austria
3. 15th (WSEAS) International Conference on FLUID MECHANICS (FLUIDS '19), Athens, Greece, December 8-10, 2019
4. 14th Joint Conference on Mathematics and Computer Science (MaCS) 2022, November 24–27, Babeș–Bolyai University, Cluj-Napoca, Romania.
5. 14th International Conference on Computational Heat and Mass Transfer (ICCHMT 2023), 4-8 September 2023, Düsseldorf, Germany.

Reviewer: Meccanica, ZAMP, Advances in Mechanical Engineering, Heat Transfer-Asian Research, International Journal Thermal Sciences, Theoretical and Applied Mechanics, Current Nanosciences, International Journal of Engineering, Science and Technology, International Journal of Heat and Mass Transfer, Nonlinear Analysis: Real World Applications. International Communications in Heat and Mass Transfer, International journal of Numerical Methods for Heat and Fluid Flow, Journal of Heat Transfer-Transactions of the ASME

Computer skills

Matlab, Mathematica, Ansys FLUENT

Language

English: reading (very good), writing (good), listening (good), speaking (good)