CURRICULUM VITAE
Dr. ZOLTÁN VÖRÖS

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DATE OF BIRTH: 25.12.1959, Komárno
CITIZENSHIP: Slovak Republic

RESEARCH INTEREST

Space plasma physics: magnetic reconnection, turbulence, spatio-temporal structures in space plasmas, non-extensive thermostatistics

EDUCATION

1985 Nuclear Physics, Comenius University Bratislava, Slovak Republic
1993 PhD in Geophysics, Comenius University, Bratislava

WORK EXPERIENCE

1985-1993 Doctorant/researcher, Slovak Academy of Sciences, Geophysical Institute
1990-2002 Senior researcher, Head of Hurbanovo Geomagnetic Observatory, Slovak Rep.
2006-2008 Senior researcher, Czech Academy of Sciences, Institute of Atmospheric Physics, Prague, Czech Republic
2002-2008 Researcher, Space Research Institute, Graz, Austria
2008-2012 Researcher, Inst. for Astro- and Particle Physics, University of Innsbruck, Austria
2012- Researcher, Space Research Institute, Graz, Austria
since 2013 Project leader, Space Research Institute, Graz, Austria
since 2015 Senior researcher, Space Research Laboratory, Eötvös L. Univ. Budapest, Hun.
since 2016 Senior researcher, Inst. Earth Phys. and Space Science, Sopron, Hungary
2017- Project leader, University of Graz, Austria

VISITING SCIENTIST

1997-1998 Guest professor, Eötvös Loránd University, Budapest, Hungary
1997 - Guest professor, La Plata University, Argentina

PARTICIPATION IN PROJECTS

Participation: Cluster, Themis/Artemis, Venus Express, MMS, Solar Orbiter, Austrian FWF P20131-N16, Austrian Y398, Austrian S11606-N16,
Leader: FWF 10.55776/P33285, FWF 10.55776/P28764, FWF 10.55776/P24740, FWF 10.55776/PAT9232923, FWF 0.55776/P33285
ISSI Bern 185
2 Slovak VEGA projects, EU FP7 STORM – 313038

PUBLICATIONS

In refereed journals: 120
Total number of citations: 5870
h-index: 39 (https://scholar.google.com/citations?user=NEORYUkAAAAJ&hl=en)
http://orcid.org/0000-0001-7597-238X

INVITED TALKS: 35

EDITORIAL

2007 – Excellence in refereeing - Journal of Geophysical Research
2012-2014 – Associate editor – Journal of Geophysical Research
2012 – Co-editor: Multi-scale dynamical processes in space and astrophysical plasmas, Springer

INTERNATIONAL COMMITTEES

2008, 2011 – NASA Geospace panel, USA
2009 – National Science Foundation panel, USA

ORGANIZATION OF INT. CONFERENCES

2000 IX-th IAGA Workshop on Geomag. Observatories, Hurbanovo, main organizer
2006 6th Int. Workshop on Nonlinear Waves and Turbulence, Kyushu Univ., Progr. Com.
2009 IAGA XI-th Scientific Assembly, Sopron, Hungary, member of LOC
2011 International Astrophysics Forum, Alpbach, Austria, main organizer
2014 EGU Session on Solar system plasma turbulence, Convener
2015 Solar system plasma turbulence, Workshop and School, Romania, member of SOC

10 IMPORTANT PUBLICATIONS

(1) Z Vörös, et al., **MMS Observation of Magnetic Reconnection in the Turbulent Magnetosheath** *Journal of Geophysical Research: Space Physics* 122: 11,442–11,467, 2017
(2) E Yordanova, Z Vörös, et al., **Electron scale structures and magnetic reconnection signatures in the turbulent magnetosheath** *Geophysical Research Letters* 43: 5969–5978, 2016
(3) Z Vörös, et al., **Turbulence-generated proton-scale structures in the terrestrial magnetosheath** *The Astrophysical Journal Letters* 819: L15, 2016
(4) T.V. Zaqarashvili, Z. Vörös, et al. **Twisted magnetic flux ropes in the solar wind** *The Astrophysical Journal Letters* 783: 1. , 2014
(5) Vörös, Z., et al,: **Windsock memory COnditioned RAM (CO-RAM) pressure effect: forced reconnection in the Earth's magnetotail,** *Journal of Geophysical Research: Space Physics, 119, 8, 2014*
(6) Leitner, M., M.P. Leubner and Z. Vörös, **Introducing log-kappa distributions for solar wind analysis,** *Journal of Geophysical Research: Space Physics, 114, A12104, 2009*
(7)Yordanova, E., A. Vaivads, M. Andre, S.C. Buchert, Z. Vörös, **Magnetosheath plasma turbulence and its spatiotemporal evolution as observed by Cluster spacecraft,** *Physical Review Letters, 100, 20, 2008*
(8) Zhang, T.L., M. Delva...., Z. Vörös, et al., **Little or no solar wind enters Venus' atmosphere at solar minimum,** *Nature, 450, 7170, 654, 2007*
(9) Leubner, M.P., and Z. Vörös, **A nonextensive approach to solar wind intermittency,** *The Astrophysical Journal, 618, 1, 2005*
(10) Vörös, Z., et al., **Turbulent dynamo in the terrestrial magnetosheath,** *Nature Comm.* **,** 2026