

**NAME AND ADDRESS**

Mihály Pósfai

University of Pannonia, Research Institute of Biomolecular and Chemical Engineering,  
Nanolab

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<https://nanolab.uni-pannon.hu/en>

**DEGREES**

Hungarian Academy of Sciences D.Sc. in earth sciences 2004

Eötvös Loránd University, Budapest Ph.D. in mineralogy 1992

Eötvös Loránd University, Budapest M.Sc. in geology 1987

**EMPLOYMENT**

Dept. of Earth and Env. Sci., University of Pannonia, Veszprém, Hungary; professor since 2006; associate/assistant professor 1994-2006

Dept. of Materials Science and Engineering, University of Cambridge, visiting scientist, 2004-2005 (4 months)

Dept. of Geology, Arizona State University; postdoctoral research associate 1996-1998 and 1992-1994 (4.5 years)

Dept. of Inorganic Chemistry, Stockholm University; Swedish Institute scholar, 1991-1992 (4 months)

**RESEARCH INTERESTS**

(1) Carbonate precipitation in lakes and phosphorus cycling; structures of carbonate biominerals. (2) Iron biominerals: biologically controlled mineralization in magnetotactic bacteria, synthesis and characterization of magnetic iron oxide nanoparticles. (3) Characterization of individual species in atmospheric aerosol particles for understanding their roles in atmospheric processes and in global climate change. (4) Application of advanced transmission electron microscopy techniques to environmental mineralogy problems (<https://nanolab.uni-pannon.hu/en/envmin-research-group/research>).

**TEACHING**

Mineralogy; Introductory Crystallography; Microscope Methods; Geochemistry; Earth Resources; Biomineralization (BSc, MSc and PhD courses at the University of Pannonia, guest lectures at Eötvös University, Budapest and University of Brno, Czech Republic)

**MAJOR ACADEMIC HONORS**

Member of Academia Europaea 2021

Széchenyi Prize (awarded by the President of Hungary) 2016

Member of the Hungarian Academy of Sciences, since 2010

Fellow of the Mineralogical Society of America 2009

European Mineralogical Union Medal for Research Excellence 1999