

CURRICULUM VITAE

- 1. Family Name:** MOLNÁR
- 2. First names:** ZSUZSA
- 3. Date of birth:** 15 June 1951
- 4. Nationality:** Hungarian
- 5. Occupation:** chemist

6. Education:

Institution	ELTE University Chemistry	
Date: from-to (month/year)	Sept. 1970-June 1975	
Degree(s) or Diploma(s) obtained	M.Sc.	

7. Professional Experience :

Company	Tenchnical University of Budapest Institute of Nuclear Techniques	Radanal Ltd.
Date: from-to (month/year)	Sept. 1975-June. 2008	Jun. 2008-
Location	Budapest	Budapest
Position	assistant professor	researcher
Description	radiochemistry	radiochemistry

8. Language skills: (competence from 1 to 5)

Language	Reading	Speaking	Writing
Hungarian	mother language		
English	4	4	4
Russian	1	1	1

9. Membership of professional bodies:

10. Other skills (e.g. computer literacy, etc.):

11. **Present position:** researcher

12. **Years within firm:** 33

13. **Key qualifications:** radiochemistry.

14. Specific experience:

Country	Date from-to (month/year)
Belgium, Mol	1885 oct-1986 febr
Ausztria (IAEA Seibersdorf)	several times

15. Publications

Determination and identification of emission sources on basis of the trace element composition of aerosols

Zs.Molnar, G.Keömley, T.Várkonyi
Periodica Polytechnica, 1982 26(1982)123

Neutron activation mapping of the transport of electrode materials in high pressure lamps

Z.Márton, S.Holló, F.Nagel, B.Nyiri, I.Szántó, G.Keömley, Zs.Molnár
J. of Electrochemical Soc. 1988 135(1988)4

Németbánya későbronzkori kerámiái a természettudományos vizsgálatok tükrében

Varga István, Molnár Zsuzsa, Nagyné Czakó Ilona, Ilon Gábor
Acta Musei Papensis, Pápai Múzeumi Értesítő 2-1989

Determination of Main and Trace Element Contents in Human Brain by NAA and ICP-AES Methods

E.Andrási, J.Nádasdi, Zs.Molnár, L. Bezur
Biological Trace Element Research, 1990 Vol.26-27 p.691

Application of Neutron Activation Analysis in the Institute of Nuclear Techniques of Technical University of Budapest

Zs.Molnár, G.Keömley, D.Bódizs, Z.Lengyel
Periodica Polytechnica 1992, Ser. Physics, 1(1992)1 pp 45-64.

Analysis of Actinides in the Primary Coolant of a WWER-440 Type Reactor

N.Vajda, J.Larosa, T.Pintér, G.Keömley, D.Bódizs, Zs.Molnár
Journal of Radioanal. Chem., 170(1993)2 pp. 399-409.

Alkaline Lamprophyre and Related Dyke Rocks in NE Transdanubia, Hungary

Cs.Szabó, I.Kubovics, Zs.Molnár
Mineralogy and Petrology, 47(1993) pp. 127-148.

Characterisation of Biological RMs for Potential use in Human Brain analysis

E.Andrási, A.Dózsa, L.Bezur, L.Ernyei, Zs.Molnár
Fresenius J.Anal.Chem., 345(1993) pp. 340-342.

M.M. El-Mahallawi, Zs. Molnár

REE geochemistry and petrogenesis of the post granite dykes of Gebel Kadabora area, Central Eastern Desert, Egypt
Egyptian Mineralogist, Vol. 6 (1994) pp. 141-152

Normal Human Brain Analysis

E.Andrási, L.Orosz, L.Bezur, L.Ernyei, Zs.Molnár
Microchemical Journal, 51(1995) pp.99-105

Inventory determination of low and intermediate level radioactive Waste of Paks Nuclear Power Plant origin

P. Ormai, A. Fritz, J. Solymosi, I. Gresits, E. Hertelendi, Z. Szûcs, N. Vajda, Zs. Molnár, P. Zagyvai
J. Radioanalytical and Nuclear Chemistry Vol. 211, No. 2 (1996) p.

Outline of the final report. 4th Coordination meeting of CEC project on pathways of radionuclides emitted by non-nuclear industries,
N. Vajda, Zs. Molnár, P. Zagyvai, D. Bódizs
Jyllinge-Riso, Apr. 27-29 (1995)

Final report of the research contract on fuel failure detection by analysis of actinides
IAEA Research Coordination Meeting of CRP on ED-WARF-phasell
N. Vajda, Zs. Molnár, T. Pintér
Dimitrograd, Sep 19-23 (1995)

E. András, É. Farkas, Zs. Molnár, É. Bertalan;
Analysis of Aluminium in the Human Brain.
Microchemical Journal. 54 (1996) pp. 210-217.

M. Balla, G. Keömley, Zs. Molnár; Neutron Activation Analysis. In: Nuclear Methods in Mineralogy and Geology. Eds. A. Vértes, S. Nagy, K. Süvegh, Plenum Press. New York, 1998 p. 115-144

A.M. Abdel-Karim, I. Kubovics, Ys. Molnar; Geochemistry, mineral chemistry and tectonic setting of the older granitoids from east of El-Tor, Sw-Sinai, Egypt; Acta Mineralogica-Petrographica, Szeged, XI, 77-96, 1999.

E.András, S.Igaz, Zs.Molnár, S.Makó: Disturbances of magnesium concentrations in various brain areas in Alzheimer's disease
Magnesium Research (2000) 13,3, 189-196

Nagy Béláné, G.Sólyom Kamilla, Balogh Zoltán Zsolt, Szabó Csaba, Molnár Zsuzsa:
Radonanómia komplex vizsgálata a Sajó-Hernád térségében, Magyar Kémiai Folyóirat, 106 évf. 2000. 5-6 sz.

I.O.B. Ewa, D. Bodizs, Sz. Czifrus, Zs. Molnar: Monte Carlo determination of full energy peak efficiency for HPGe detector, Applied Radiation and Isotopes , 55 (2001) 103-108

Zs.Szántó, Z. Szűcs, É. Svingor, M. Molnár, L. Palcsú, I. Futó, N. Vajda, Zs. Molnár, É. Kabai
Determination of ^{129}I in low level radioactive waste by two different methods
International conference of Nuclear Energy in Central Europe 2001:
<http://www.drustvo-js.si/port/2001>

Burján Zsuzsanna, Nagy Béláné, Gálné Sólymos Kamilla, Szabó Csaba, Bódizs Dénes, Molnár Zsuzsa
Radon potenciális forrásásványainak kutatása geokémiai és műszeres analitikai módszerekkel
Magyar kémiai folyóirat, 108.évf./2002/ 8. szám

N.Vajda, Zs.Molnar, E.Kabai, P.Zagyvai
Radiochemical determination of long-lived radionuclides in environmental samples
Environmental protection against radioactive pollution, 133-146. 2003 Kluwer Academic Publisher

Vajda, N., Molnar, Zs., Kabai, E. and Osvath, Sz. 2003 Simultaneous determination of long-lived

radionuclides in environmental samples. In: Warwick, P., editor. *Environmental radiochemical analysis II*. The Royal Society of Chemistry, Athenaeum Press, Gateshead, Tyne & Wear, UK, p.185-196.

M. Balla, Zs. Molnár, Á. Körös

Uncertainty budget and validation of NAA using Reference Materials

J. Radioanalytical and Nuclear Chemistry, Vol. 259, No. 3 (2004) 395-400

Norbert Zajzon, Zsuzsa Molnár: Naturalisation of ppb range iridium determination by instrumental neutron activation in Hungary

Acta Mineralogica-Petrographica, Szeged 2004, Vol, 45/1, pp. 119-121

Cs. Bélavári, E. Andrási, Zs. Molnár, D. Gawlik: Determination of Na, K, Rb and Cs distribution in human brain using neutron activation analysis

Microchimica Acta 146 (2004) 187-191

N. Páli, E. Andrási, I. Peltzné Császma, Zs. Molnár: Analysis of Al, Mg, P in human brain parts

Metal ions in biology and medicine: Vol. 8 John Libbey Eurotext, 2004 pp. 484-487

Cs. Bélavári, E. Andrási, Zs. Molnár, É. Bertalan: Determination of alkali metals in control and AD brain samples by different techniques

Microchemical journal 79 (2005) 367-373

E. Andrási, N. Páli, Zs. Molnár, S. Kösel: Brain aluminium, magnesium and phosphorus contents of control and Alzheimer-diseased patients.

J. of Alzheimer Disease 7 (2005) 273-284

N. Vajda, M. Balla, Zs. Molnár, D. Bódizs: Hard Days and Nights: On the Way to Formal Accreditation

Accred Qual Assur, 2005.

A. Kerkápoly, Zs. Molnár, D. Tar, N. Vajda, A. Pintér Csordás, T. Pintér, É. Komlósi: Analysis of Hot Particles Originating from the Primary Circuit of NPP Paks

Secondary Water Chemistry of NPPs, Budapest, 16-19 May, 2005.

N. Vajda, Zs. Molnár, A. Kerkápoly, T. Pintér: Contamination of the Cooling Circuit due to the Cleaning Tank Incident at NPP Paks, 6th Int. Seminar on Primary and Secondary Water Chemistry of NPPs, Budapest, 16-19 May, 2005.

E.Cincu, I. Manea, D.Bardos, O.Sima, I. Gustavson, P.Vermaercke, N.Vajda, Zs.Molnar, H. Polkowska

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