

# Curriculum vitae

## Informații personale

Nume/Prenume	<b>Szakács, Alexandru</b>
E-mail	szakacs@sapientia.ro

## Funcția și locul de muncă (universitatea, facultatea, catedra)

Conferențiar univrsitar pensionar,  
Universitatea Sapientia,  
Departamentul de Știința Mediului

## Educație și formare

- Studii doctorale-Doctor în Geologie (PhD), Universitatea din București, 2000
- Studii universitare-Universitatea din București, Facultatea de Geologie-Geografie, Secția Geologie, cu diploma de geolog, 1974

## Experiența profesională

- 2004-prezent: Conferențiar universitar, Universitatea Sapientia din Cluj-Napoca, Facultatea de Științe și Arte, Departamentul de Știința Mediului
- 2003-2004 - 15 sept. 2004: semestrul I, anul universitar, Lector asociat la Universitatea Sapientia din Cluj-Napoca, Facultatea de Științe și Arte, Catedra de Geografia Mediului
- 2001-2002 semestrul II, anul universitar - prezent: cadru didactic asociat la Universitatea Babeș-Bolyai din Cluj-Napoca, Facultatea de Biologie-Geologie, Linia de predare în limba maghiară
- Din 15 sept. 2005 cadru didactic asociat la Universitatea Babeș-Bolyai din Cluj-Napoca la Facultatea de Știința Mediului, Linia de predare în limba maghiară.

## Alte funcții deținute (nedidactice)

- 2001–2004: cercetător științific principal II la Institutul de Geodinamică “Sabba S. Ștefănescu” al Academiei Române, București
- 2000-2001: Geolog de explorare la S.C. Minera Carola, Copiapo, Chile;
- 1983 – 2000: Cercetător științific, cercetător științific principal III (din 1991), cercetător științific principal II (din 1998) la Institutul Geologic al României, București
- 1974-1983: Geolog și geolog principal la Intreprinderea Geologică de Prospekțiuni pentru Substanțe Minerale Solide (IGPSMS), redenumită Intreprinderea de Prospekțiuni Geologice și Geofizice (IPGG), actuala S.C. Prospekțiuni S.A, București.

## Limbi străine cunoscute

- Engleza (nivel mediu/superior),
- Spaniola (nivel mediu/mediu),
- Maghiara (limba maternă)

## Activitatea didactică (cursuri, seminarii, lucrări practice conduse)

- Curs-**Mineralogie**,
- Curs-**Petrografie**,
- Curs-**Mineralogie-petrografie**,
- Curs-**Hidrogeologie**,
- Curs-**Hidrologie-Hidrogeologie**,

- Curs-**Geochimie**,
- Curs-**Pedologie**,
- Curs-**Introducere în știința mediului**,
- Curs-**Monitorizarea mediului construit**
- Curs-**Geologia mediului1**
- Curs-**Geologia mediului2**
- Curs-**Hidrologie și oceanografie**
- Curs/Seminar-**Riscuri naturale și antropice**

Cursuri universitare conduse la Universitatea Babeș-Bolyai: Geologie generală, Geodinamică internă, Geodinamică externă, Pedologie, Geologia mediului (2005-2006), Materiale constitutive ale scoarței terestre (2005-2006)

Cursuri de Master conduse la Universitatea Babeș-Bolyai: Prelucrarea datelor petrochimice (2004-2005), Diagrame de fază (2005-2006)

#### **Domeniul de cercetare**

- Geologie: vulcanologie, petrologia și geochimia rocilor magmatice, metalogeneza zăcămintelor de minereuri în arii vulcanice, hazarde naturale

#### **Membru în organizații științifice și profesionale**

- Membru al Societății Geologice a României, din 1990;
- Membru al Societății de Mineralogie din România, din 1991;
- Membru al Societății Geofizice a României, din 1997;
- Membru al AGU (American Geophysical Union), din 1992;
- Membru al IAVCEI (International Association of Volcanology and Chemistry of the Earth Interior), din 1996: Reprezentantul național pentru România a acestei Asociații, din 1997;
- Membru al INQUA (International Quaternary Association), Commission of Tephrochronology, din 1992.
- Membru al Societății Geologice Koch Antal, Cluj-Napoca, din 2010
- Membru și președinte KAB (Comisia Academică din Cluj-Napoca, secția Geologie) a Academiei Ungare de Științe (MTA), între 2011-2014

#### **Membru în colective de redacție**

- Membru în colectivul de redacție: Studia Universitatis Babeș-Bolyai, Geologie
- Membru in Science Advisory Board, Geologica Balcanica (the official journal of the Carpathian-Balkan Geological Association), Sofia

## **Lista de lucrări în domeniul de studii universitare de licență Știința Mediului (Geologie)**

**Numele și prenumele: Szakács Alexandru**

### **A. Teza de doctorat**

„Studiul tefrologic și petrologic al tufurilor vulcanice miocen inferioare din nord-vestul Bazinului Transilvaniei”, Universitatea din București, Facultatea de Geologie-Geografie, sub conducerea Prof. Dr. Dan P. Rădulescu, susținută în anul 2000

### **B. Cărți publicate**

#### **B1. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate**

#### **B2. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS**

- Szakács A., Gál Á., Silye L. Dicționar geologic român-maghiar-englez. Presa Universitară Clujană, 360 p. (2007)

#### **B3. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate la alte edituri sau pe plan local**

#### **B4. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web**

#### **B5. Capitole de cărți publicate în străinătate**

- Szakács A., Seghedi I. Large volume volcanic debris avalanche in the East Carpathians, Romania, in H. Leyrit & C. Montenat (eds) “Volcaniclastic rocks, from magma to sediments”, H., Gordon Breach Science Publishers, p. 131-151, (2000)
- Szakács A. (2010) From definition of volcano to conceptual volcanology. In Canon-Tapia, E. and Szakács, A, eds., What is a Volcano?: Geological Society of America Special Paper 470, 67-76, doi: 10.1130/2010.2470(5)
- Szakács A., Canon-Tapia E. (2010) Some challenging new perspectives of volcanology. In Canon-Tapia, E. and Szakács, A, eds., What is a Volcano?: Geological Society of America Special Paper 470, 123-140, doi: 10.1130/2010.2470(9)
- Szakács A. (2010) Post-volcanic Phenomena in the East Carpathians. in Evelpidou, N.; Figueiredo, T. de; Mauro, F.; Tecim, V.; Vassilopoulos, A. (Eds.) "Natural Heritage from East to West. Case studies from 6 EU Countries ", Springer Verlag, p.87-93, ISBN 978-3-642-01576-2

#### **B6. Capitole de cărți publicate în țară**

- Seghedi I., Szakács A. Dacian volcanism in the Romanian Carpathians. in Fl. Marinescu and I. Papaianopol (eds.) Chronostratigraphie und Neostatotipen. Dacian, Editura Academiei Romane, 92-96, Bucharest, (1995)
- Szakács A., Seghedi I. Volcanism in Romania during Romanian time. in I. Papaianopol and R. Macalet (eds.) Chronostratigraphie und Neostatotipen. Romanian, Editura Academiei Romane, p. 107-115, (2003)
- Szakács A., Seghedi I. (2010) Rock-forming minerals in the Neogne Călimani-Gurghiu-Harghita volcanic range, Eastern Carpathians, Romania. A review. In Sándor

Szakáll and Ferenc Kristály (eds.) Mineralogy of Székleyland, Eastern Transylvania, Romania. Csík County Nature and Conservation Society, Miercurea Ciuc, p. 129-145, ISBN 978-606-8235-01-1

## **C. Lucrări științifice publicate**

### **C1. Lucrări științifice publicate în reviste cotate ISI**

#### **1994**

- Juvigne E., Gewalt M., Gilot E., Hurtgen C., Seghedi I., Szakács A., Gábris Gy., Hadnagy A., Horváth E. Une eruption vieille d'environ 10,700 ans (14C) dans les Carpates Orientales (Roumanie). C.R. Acad. Sci. Paris, 318, II, 1233-1238, Paris. **(1994)**

- Szakács A. Redefining active Volcanoes. A discussion. Bull. Volcanol., 56, 321-325, **(1994)**

#### **1995**

- Downes H., Seghedi I., Szakács A., Dobosi G., James D.E., Vaselli O., Rigby I.J., Ingram J.A., Rex D., Pécskay Z. Petrology and geochemistry of Late Tertiary/ Quaternary mafic alkaline volcanism in Romania. Lithos, 35, 65-8. **(1995)**

- Vaselli O., Downes H., Thirlwall M., Dobosi G., Coradossi N., Seghedi I., Szakács A., Vanucci R. Ultramafic xenoliths in Plio-Pleistocene alkali basalts from the Eastern Transylvanian Basin: Depleted mantle enriched by vein metasomatism. Journal of Petrology, 36, 1, 23-53. **(1995)**

#### **1996**

- Mason P., Downes H., Thirlwall M.F., Seghedi I., Szakács A., Lowry D., Matthey D. Crustal assimilation as a major petrogenetic process in the East Carpathian Neogene and Quaternary continental margin arc, Romania. Journal of Petrology, 37, 4, 927-959. **(1996)**

#### **1998**

- Seghedi I., Balintoni I., Szakács A. Interplay of tectonics and Neogene post-collisional magmatism in the intracarpathian region. Lithos, 45, p.483-497. **(1998)**

- Mason P., Seghedi I., Szakács A., Downes H. Magmatic constraints on geodynamic models of subduction in the East Carpathians, Romania. Tectonophysics, 297, 1-4, p.157-176. **(1998)**

#### **2000**

- Ciulavu D., Dinu C., Szakács A., Dordea D. Late Miocene to Pliocene kinematics of the Transylvanian Basin Romania, AAPG Bulletin, 84, 11589-11615. **(2000)**

#### **2001**

- Seghedi I., Downes H., Pécskay Z., Thirlwall M.F., Szakács A., Prychodko M., Matthey D. Magmatogenesis in a subduction-related post-collisional volcanic arc segment: The Ukrainian Carpathians. Lithos, 57 (4), 237-262. **(2001)**

- Szakács A., Ort M. Comments on the article “Erosion calderas: origins, processes, structural and climatic control” by Karátson D., Thouret J.-C., Moriya I., Lomoschitz A. (1999). Bull Volcanol, 61: 174-193. Bulletin of Volcanology, 63, p.289-290 (2001)

## 2002

- Vaselli O., Minissale A., Tassi F., Magro G., Seghedi I., Ioane D., Szakács A. A geochemical traverse across the Eastern Carpathians(Romanian): constraints on the origin and evolution of the mineral water and gas discharges. Chemical Geology, 182, 637-654, (2002)

- Szakács A., Seghedi I., Pécskay Z. The most recent volcanism in the Carpathian-Pannonian Region. Is there any volcanic hazard? Geologica Carpathica, vol.53 Special Issue, Proceedings of the XVIIth Congress of Carpathian-Balkan Geological Association, 193-194, (2002)

## 2004

- Roşu, E., Seghedi, I., Downes, H., Alderton, D.H.M., Szakács, A., Pécskay, Z., Panaiotu, C., Panaiotu, C.E., Nedelcu, L. Extension-related Miocene calc-alkaline magmatism in the Apuseni Mountains, Romania: origin of magmas. Schweizerische Mineralogische und Petrographische Mitteilungen, 84/1-2, Special issue, (Albrecht von Quadt ed.), p.153-172. (2004)

- Seghedi, I., Downes, H., Szakács, A., Mason, P.R.D., Thirlwall, M.F., Rosu, E., Pécskay, Z., Márton, E. and Panaiotu, C. Neogene-Quaternary magmatism and geodynamics in the Carpathian-Pannonian region: A synthesis. Lithos, 72, 117-146, (2004)

- Seghedi I., Szakács A., Snelling N., Pécskay Z. Evolution of the Neogene Gurghiu Mountains volcanic range (Eastern Carpathians, Romania), based on K-Ar geochronology. Geologica Carpathica, 55, 4, 325-332, (2004)

- Panaiotu C., Pécskay Z., Hambach U., Seghedi I., Panaiotu C.E., Itaya T., Orleanu M., Szakács A. Short-lived Quaternary volcanism in the Persani Mountains (Romania) revealed by combined K-Ar and paleomagnetic data. Geologica Carpathica, 55, 4, 333-339, (2004)

- Seghedi I., Downes H., Vaselli O., Szakács A., Balogh K., Pécskay Z. Post-collisional Tertiary-Quaternary mafic alkaline magmatism in the Carpathian-Pannonian region: a review. Tectonophysics, 393, 43-62, (2004)

## 2005

- Seghedi I., Szakács A., Pécskay Z., Mason P. R. D. Eruptive history and age of magmatic processes in the Călimani volcanic structure, Romania. Geologica Carpathica, 56, 1, 67-75, (2005)

## 2006

- Szakács A., Krézsek Cs. Volcano-basement interactions in the Eastern Carpathians: Explaining unusual tectonic features in the Eastern Transylvanian Basin, Romania. J.Volcanol. Geotherm.Res., 158, 6-20, (2006)

- Pécskay Z., Lexa J., Szakács A., Seghedi I., Balogh K., Konecny V., Zelenka T., Kovacs M., Póka T., Fülöp A., Márton E., Panaiotu C., Cvetkovic V. Geochronology of Neogene magmatism in the Carpathian arc and intra-Carpathian area. *Geologica Carpathica*, 57, 6, 511-530, (2006)

## 2007

- Seghedi I., Szakács A., Hernandez Pacheco A., Brandle Matesanz J.-L. Miocene lamproite volcanoes in south-eastern Spain – an association of phreatic and magmatic products. *J. Volcanol. Geotherm. Res.*, 159, 210-224, (2007)

## 2008

- Néda T., Szakács A., Mócsy I., Cosma C. Radon concentration levels in dry CO<sub>2</sub> emanations from Harghita Băi, Romania, used for curative purposes. *Journal of Radioanalytical and Nuclear Chemistry*, Vol. 277, No.3, p.685–691, (2008)

- Néda T., Szakács A., Cosma C., Mócsy I. Radon concentration measurements in mofettas from Harghita and Covasna Counties, Romania. *J. Environ. Radioact.*, doi: 10.1016/j.jenvrad.2008.07.007 (2008)

## 2009

- Pécskay Z., Seghedi I., Kovacs M., Szakács A., Fülöp A. Geochronology of the Neogene calc-alkaline intrusive magmatism in the “Subvolcanic Zone” of the Eastern Carpathians (Romania). *GEOLOGICA CARPATHICA*, 60, 2, 181—190, doi: 10.2478/v10096-009-0012-5 (2009)

- Constantina C., Szakács A., Pécskay Z. Petrography, geochemistry and age of volcanic rocks in the Gurasada area, southern Apuseni Mts., *Carpathian Journal of Earth and Environmental Sciences*, Vol. 4, No.1, p. 31-47 (2009) ISSN Printed: 1842 – 4090, ISSN Online: 1844 - 1489X, Covered Thomson Reuters: , Indexed in VINITI, Covered in GeoRef

## 2010

- Papp B., Szakács A., Néda T., Papp Sz., Cosma C. (2010) Soil radon and thoron studies near the mofettes at Harghita Bai (Romania) and their relation to the field location of fault zones. *Geofluids*, 10, 586-593, doi: 10.1111/j.1468-8123.2010.00318

## 2011

- Szakács A. (2011) Earthquake prediction using extinct monogenetic volcanoes: A possible new research strategy. *Journal of Volcanology and Geothermal Research*, 201, 404-411, doi:10.1016/j.jvolgeores.2010.06.015

- Seghedi, I., Maţenco, L., Downes, H., Mason, P.R.D., Szakács, A., Pécskay, Z. (2011) Tectonic significance of changes in post-subduction Pliocene-Quaternary magmatism in the south east part of the Carpathian-Pannonian Region *Tectonophysics*, 502, 146-157, doi:10.1016/j.tecto.2009.12.003

- Popa, M., Radulian, M., Szakács, A., Seghedi, I., Zaharia B. (2011) New Seismic and Tomography Data in the Southern Part of the Harghita Mountains (Romania, Southeastern

Carpathians): Connection with Recent Volcanic Activity. *Pure Appl. Geophys.* DOI 10.1007/s00024-011-0428-6

- Szakács A. (2011) Rosaly Lopes—Volcanoes: a Beginner's Guide Oneworld, 1st edition (January 1, 2011) Oneworld Beginner's Guides. 208 pages. Book review. *Bulletin of Volcanology*, Springer Verlag, Online First™, 25 September 2011 DOI: 10.1007/s00445-011-0539-z

## 2012

- Popa, M., Radulian, M., **Szakács, A.**, Seghedi, I., Zaharia B. (2012) New Seismic and Tomography Data in the Southern Part of the Harghita Mountains (Romania, Southeastern Carpathians): Connection with Recent Volcanic Activity. *Pure Appl. Geophys.*, 169, 9, 1557-1573. DOI 10.1007/s00024-011-0428-6 2010 Impact factor in 2011: 1.787

- **Szakács A.** (2012) Rosaly Lopes—Volcanoes: a Beginner's Guide Oneworld, 1st edition (January 1, 2011) Oneworld Beginner's Guides. Paperback, 208 pages. ISBN-10: 1851687254, ISBN-13: 978-1851687251. Book review. *Bulletin of Volcanology*, 74:1771–1774, DOI: 10.1007/s00445-011-0539-z, Springer Verlag

- **Szakács A.**, Pécskay Z., Silye L., Balogh K., Vlad D., Fülöp A. (2012) On the age of the Dej Tuff, Transylvanian Basin, Romania. *GEOLOGICA CARPATHICA*, 63, 138-148, doi: 10.2478/v10096-012-0011-9

- **Szakács A.** (2012) C. Breitkreuz and N. Petford (eds): Physical geology of high-level magmatic systems and K. Thomson and N. Petford (eds): Structure and emplacement of high-level magmatic systems. Geological Society, London 2004, Special Publications 234, Hardcover, 262 pages, ISBN 978-1-86239-169-7 and Geological Society, London 2008, Special Publications 302, Hardcover, 240 pages, ISBN 978-1-86239-256-4. Book review. *Bulletin of Volcanology*, DOI 10.1007/s00445-012-0611-3

- Servida D., Comero S., Dal Santo M., de Capitani L., Grieco G., Marescotti P., Porro S., Forray F.L., Gál Á., **Szakács A.** (2012) Waste rock dump investigation at Rosia Montana gold mine (Romania): a geostatistical approach. *Environ Earth Sci*, DOI 10.1007/s12665-012-2100-6

## 2013

- Veres D., Lane C.S., Timar-Gabor A., Hambach U., Constantin D, **Szakács A.**, Fülling A, Onac B.P. (2012, in press) The Campanian Ignimbrite/Y5 tephra layer – A regional stratigraphic marker for Isotope Stage 3 deposits in the Lower Danube region, Romania. *Quaternary International*. <http://dx.doi.org/10.1016/j.quaint.2012.02.042>.

- Szakács A., Seghedi I. (2013) The relevance of volcanic hazard in Romania: is there any? *Environmental Engineering and Management Journal*, 12, 1, 125-135

- Szakács A. (2013) G. Groppelli and L. Viereck-Goette (eds.): Stratigraphy and geology of volcanic areas. The Geological Society of America Special Paper, 2010, 464 pages, ISBN 978-0-8137-2464-5 (pbk). Book review. *Bulletin of Volcanology*, 75, 6, 725, DOI 10.1007/s00445-013-0725-2

## 2014

- Papp B., **Szakács A.**, Néda T, Frunzetti N., Sacsvai K., Cosma C. (2014) Soil radon and thoron activity concentrations and CO<sub>2</sub> flux measurements in the Neogene volcanic

regions of the Eastern Carpathians (Romania). *Carpathian Journal of Earth and Environmental Sciences*, 9, 1, 261-268

## 2015

- **Szakács A.**, Seghedi I., Pécskay Z., Mirea V. (2015) Eruptive history of a low-frequency and low-output rate Pleistocene volcano, Ciomadul, South Harghita Mts., Romania. *Bulletin of Volcanology*, 77, 12 DOI 10.1007/s00445-014-0894-7 <http://link.springer.com/article/10.1007/s00445-014-0894-7>

## 2016

- Istvan Marton, Yaroslav Dintchev, Mariana Trifonova, Neli Hadzhieva, Miglena Grigorova, Aneta Aleksieva, Georgi Ivanov, S Milinković, **Alexandru Szakács**, Mathias Knaak, Kuncho Kunchev, Richard Gosse A new geological model for the Chelopech Au-Cu deposit in Bulgaria: exploring a maar-diatreme system within an intrusive environment, SEG-MJD Conference, Sofia, 2016
- I Seghedi, RG Popa, CG Panaiotu, A **Szakács** (2016) Short-lived eruptive episodes during the construction of a Na-alkalic basaltic field (Perșani Mountains, SE Transylvania, Romania), *Bulletin of Volcanology*, 78/10

## 2017

- **Szakács A.**, Chiriță, V. **2017**. Protected Natural Values of Geoheritage Interest in the Călimani National Park, Eastern Carpathians, Romania. *Geoheritage* 9: 421–434. (IF: 2.333/2017, Q2).

## 2018

- **Szakács A.**, Pécskay Z., Gál Á. **2018**. Patterns and trends of time–space evolution of Neogene volcanism in the Carpathian–Pannonian region: a review. *Acta Geodaetica et Geophysica* 53: 347-367. (IF: 0.942/2018, Q3).
- Szűcs E., Bozsó I., Kovács I.J., Bányai L., Gál Á., **Szakács A.**, Wesztergom V. **2018**. Probing tectonic processes with space geodesy in the south Carpathians: insights from archive SAR data. *Acta Geodaetica et Geophysica* 53: 331-345. (IF: 0.942/2018, Q3).

## 2019

- Karátson D., Telbisz T., Dibacto S., Lahitte P., **Szakács A.**, Veres D., Gertisser R., János Cs., Timár G. **2019**. Eruptive history of the Late Quaternary Ciomadul (Csomád) volcano, East Carpathians, part II: magma output rates. *Bulletin of Volcanology* 81, In Press. (IF: 2,232/2019, Q2).
- Seghedi I., Besutiu L., Mirea V., Zlagnean L., Popa R.G., **Szakács A.**, Atanasiu L., Pomeran M., Vișan M. **2019**. Tectono-magmatic characteristics of post-collisional magmatism: Case study East Carpathians, Călimani-Gurghiu-Harghita volcanic range. *Physics of the Earth and Planetary Interiors* 293, In Press. (IF: 2.615/2019, Q1).



**C2. Lucrări științifice publicate în reviste indexate în baze de date internaționale  
(indicați și baza de date)**

**1992**

• Pécskay Z., Szakács A., Seghedi I., Karátson D Contributions to the geochronology of Mt. Cucu volcano and the South Harghita (East Carpathians, Romania). **Földtani Közlöny** (Bull. Hung.Geol.Soc.), 122/2-4, 265-286, Budapest.(1992) ISSN 0015-542X Indexat in GeoRef (Washington), Pascal Folio (Orleans), Zentralblatt fur Paleontologie (Stuttgart), Referativni Jurnal (Moscova)

**1995**

• Pécskay Z., Lexa J., Szakács A., Balogh Kad., Seghedi I., Konecny V., Kovacs M., Márton E., Kaliciak M., Széky-Fux V., Póka T., Gyarmati P., Edelstein O., Roșu E., Zec B. Space and time evolution of Neogene-Quaternary volcanism in the Carpatho-Pannonian Region. *Acta Vulcanologica*, 7(2), 15-28, (1995) ISSN 1121-9114

• Pécskay Z., Edelstein O., Seghedi I., Szakács A., Kovacs M., Crihan M., Bernad A K-Ar datings of Neogene-Quaternary calc-alkaline volcanic rocks in Romania. *Acta Vulcanologica*, 7(2), 53-61., (1995) ISSN 1121-9114

• Szakács A., Seghedi I The Calimani-Gurghiu-Harghita volcanic chain, East Carpathians, Romania: Volcanological features. *Acta Vulcanologica*, 7(2), 145-153.(1995) ISSN 1121-9114

• Mason P.R.D., Downes H., Seghedi I., Szakács A., Thirlwall M. F Low-pressure evolution of magmas from the Calimani, Gurghiu and Harghita Mountains, East Carpathians. *Acta Vulcanologica*. 7(2), 43-52.(1995) ISSN 1121-9114

• Seghedi I., Szakács A., Mason P.R.D. Petrogenesis and magmatic evolution in the East Carpathian Neogene volcanic arc (Romania). *Acta Vulcanologica*, 7(2), 135-143(1995) ISSN 1121-9114

**1998**

• Szakács A., Zelenka T., Márton E., Pécskay Z., Póka T., Seghedi I Miocene acidic explosive volcanism in the Bükk Foreland, Hungary: Identifying eruptive sequences and searching for source locations. *Acta Geologica Hungarica*, Vol. 41/4, p. 413-435.(1998) ISSN 0236-5278

• Póka T., Zelenka T., Szakács A., Seghedi I., Nagy G., Simonits A Petrology and geochemistry of the Miocene acidic explosive volcanism of the Bükk Foreland, Pannonian Basin, Hungary. *Acta Geologica Hungarica*, Vol. 41/4, 437-466. (1998) ISSN 0236-5278

**2007**

• Vinkler A. P., Harangi Sz., Ntaflos T., Szakács A. A Csomád vulkán (Keleti-Kárpátok) horzsaköveinek közettani és geokémiai vizsgálata – petrogenetikai következtetések. (**Studiul petrografic și geochimic al ponciilor vulcanului Ciomadul (Carpații Orientali) – implicații petrogenetice**) *Földtani Közlöny* 137/1, Tanulmányok Erdély földtanából. p. 103-128, Budapest (2007) ISSN 0015-542X Indexat in GeoRef (Washington), Pascal Folio (Orleans), Zentralblatt fur Paleontologie (Stuttgart), Referativni Jurnal (Moscova)

## 2010

- Lexa, J., Seghedi, I., Németh, K., Szakács, A., Konečný, V., Pécskay, Z., Fülöp, A., Kovacs, M. (2010) Neogene-Quaternary Volcanic forms in the Carpathian-Pannonian Region: a review. Central European Journal of Geosciences, Volume 2, Number 3/SEPTEMBER 2010 “New advances of understanding physical volcanology processes in the Carpathian-Balkan Region from a global perspective”, 207-270, DOI10.2478/v10085-010-0025-4
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- Brandle, J.L., Szakács, A., Seghedi, I. (2010) Darwin's influence in the development of the igneous petrology. Földtani Közlöny, 140/3, p. 313-320, Budapest. Indexat in GeoRef (Washington), Pascal Folio (Orleans), Zentralblatt fur Paleontologie (Stuttgart), Referativni Jurnal (Moscova)

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#### 1995

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## 2005

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#### 1986

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- Szakács A., Jánosi Cs. Volcanic bombs and blocks in the Harghita Mts. D.S.Inst.Geol.Geofiz., 74/1, 181-189, (1989)
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## **1994**

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## **1997**

- Balintoni, I., Seghedi, I., Szakacs, A. Review of the neogene post-collisional magmatism - tectonic interplay in the intracarpathian region, *Studia Univ. "Babeş-Bolyai", GeologiaXLII*, 2, 33-49, Cluj-Napoca. (1997)

## **1998**

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## **2001**

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### 1991

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- Szakács A., Seghedi I. Accretionary lapilli tuffs in the Harghita Mountains. in I. Mârza (ed.) The volcanic tuffs from the Transylvanian Basin, Romania. University of Cluj-Napoca Special Issue 3, 217-222, Cluj-Napoca, (1991)

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- Roșu E., Szakács A., Downes H., Seghedi I., Pécskay Z Panaiotu C., Panaiotu E.C. . The origin of Neogene calc-alkaline and alkaline magmas in the Apuseni Mountains, Romania: the adakite connection. ABCD Geode workshop. Vata Bai, Romania, 8-12 June, Rom. J. Mineral.Dep. 79, suppl. 2, p.3-23. (2001)

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- Cioflica G., Jude R., Perry R.V., Berbeleac I., Seghedi I., Szakács A. Neogene siliceous deposits related to fossil geothermal systems in Romania. Romanian Journal of Mineral Deposits. Vol. 80, 1-5, Third National Symposium on Economic Geology “Alpine Metallogenesis in Romanian Carpathians and Adjoining Areas” 1-2 Nov. 2002 Bucharest (2002)
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- Szakács S., Néda T., Urák I., Farkas Gy., Mócsy I., Zsimond A., Vincze-Jancsi Z.J. Mofettakutatás a Keleti-Kárpátok vulkáni vonulatában. Környezet-tudományi vonatkozások. **(Studiul mofetelor din lanțul vulcanic al Carpaților Orientali. Implicații de știința mediului)** II. Kárpát-medencei Környezettudományi Konferencia, 2007. március 29-31., Kolozsvár, p.253-261. ISSN 1842-9815 (2007)

## 2011

- Szakács S. (2011) A földrengések rövidtávú determinisztikus előrejelzése: utópia vagy valós lehetőség? (Predictia deterministică pe termen scurt a seismelor: utopie sau posibilitate reală?) VII. Kárpátmedencei Környezettudományi Konferencia, 2011. március 24–27, Kolozsvár, II. KÖTET, p. 684-686, 845pp, Ábel Kiadó, 2011, ISSN 1842-9815

## 2014

- Szakács A. (2014) A Dési Tufa (Erdélyi-medence) Fe-Ti-oxid ásványai. Fe-Ti oxide minerals of the Dej Tuff, Transylvanian Basin, Romania. (Mineralele de Fe-Ti ale Tufului de Dej, Bazinul Transilvaniei, Romania) (in Hungarian with English abstract). In Fehér Béla (Ed.) Az ásványok vonzásában. Tanulmányok a 60 éves Szakáll Sándor tiszteletére. In the attraction of minerals. Studies in honour of the 60-year-old Sándor Szakáll. Published by the Herman Ottó Museum and the Hungarian Friends of Minerals, Miskolc, 2014, pp. 253-268. ISBN 978-963-9271-96-8
- Szakács S. (2014) Utóvulkáni jelenségek és földrengéselőjelzés: új távlatok a hazai ásványvízkutatásban. Postvolcanic phenomena and earthquake prediction: new perspectives in mineral water research in Romania (in Hungarian with English Abstract). In „A Kárpát-medence ásványvizei. X. Nemzetközi Tudományos Konferencia.” „Apele minerale din Regiunea Carpatică. A X-a Conferință științifică Internațională.” „Mineral waters in the Carpathian Basin. 1<sup>th</sup> International Scientific Conference.” Hargita Kiadóhivatal, Csíkszereda (Hargita Printing Office, Miercurea Ciuc), 2014, pp. 119-126. ISBN 978-973-7625-63-2

## D. Traduceri de cărți, capitole de cărți, alte lucrări științifice

### 1994

- Seghedi I., Szakács A., Stanciu C., Ioane D. Neogene arc volcanicity/metallogeny in the Calimani–Gurghiu–Harghita volcanic mountains. In: Borcos M. and Vlad S. (eds) Plate tectonics and metallogeny in the East Carpathians and Apuseni Mountains, IGCP Project 356, p. 12-17. (1994)

### 1995

- Szakács A., Seghedi I. Time-space evolution of Neogene-Quaternary volcanism in the Calimani-Gurghiu-Harghita volcanic chain. Guide to Excursion B3. Xth RCMNS Congress, 4-9 September 1995, Rom.J.Stratigraphy, 76, Supplement No. 4, 24 p., Bucharest (1995)

### 1996

- Szakács A., Seghedi I. Neogene/Quaternary volcanism in Romania. in I. Seghedi (ed.) Excursion Guide A, The 90th Anniversary Conference of the Geological Institute of Romania, June 12-19, 1996, Anuarul Institutului Geologic al Romaniei, 69, Suppl. Nr.2. p.33-42, Bucharest (1996)
- Mărunțeanu M., Popescu G., Szakács A., Drăgănescu L. Salt-bearing Badenian deposits in the Slanic syncline, East Carpathians. Excursion Guide C1, The 90th Anniversary Conference of the Geological Institute of Romania, June 12-19, 1996, Anuarul Institutului Geologic al Romaniei, 69, Suppl. Nr. 7, 14 p., Bucharest (1996)
- Szakács A., Seghedi I. Volcaniclastic sequences around andesitic stratovolcanoes, East Carpathians, Romania. Joint field workshop of the IAVCEI Commissions on Explosive

volcanism and volcanogenic sedimentation, August 25-September 1, 1996, Rom.J.Petrology, 77, Suppl. No.1, 55 p., Bucharest(1996)

- Ștefan A., Szakács A., Seghedi I. Dacite from type locality: Genealogy and description. The 90th Anniversary Conference of the Geological Institute of Romania, June 12-19, 1996, (1996)

#### 1997

- Nedelcu L., Hârtopan P., Szakács A., Moga C., Podașcă I. Field Trip. 4<sup>th</sup> National Symposium on Mineralogy, 3-8 October 1997 Iasi. Romanian Journal of Mineralogy, Vol.78, Supplement nr.2, 40 p, (1997)

### E. Editare, coordonare de volume

#### 2010

- Canon-Tapia, E., Szakács A. (2010) eds. **What is a Volcano? Geological Society of America Special Paper 470, 123-140, doi: 10.1130/2010.2470(9)**

### F. Invenții

### G. Contracte de cercetare (menționați calitatea de director sau membru)

- KPI (Institutul Programelor de Cercetare, Sapientia), Proiectul „Erdélyi mofetták környezettudományi szempontú geológiai, kémiai, fizikai és biológiai tanulmányozása (Studiul ambiental al unor mofete din Transilvania prin metode geologice, chimice, fizice si biologice)”, 2005-2006 (**director**), contract. nr. 1273/2005, valoarea 9826 RON
- KPI (Institutul Programelor de Cercetare al Fundației Sapientia), Proiectul „Értékes természeti kincsünk, a gázgözlők (Mofetele ca resurse naturale pretioase)” director de proiect: Bolla Csaba, 2003-2004 (**membru**), contract nr. 1348/2004, valoarea 2051 euro
- KPI (Institutul Programelor de Cercetare al Fundației Sapientia), Proiectul „Az Észak-erdélyi autópálya építésének környezeti hatásai (Efectele de mediu ale construirii autostrăzii din nordul Transilvaniei)”, Director: Mócsy Ildikó, 2005-2006 (**membru**), contract. nr. 1274/2005, valoarea 11277 RON
- KPI (Institutul Programelor de Cercetare al Fundației Sapientia), Proiectul „Erdélyi mofetták környezettudományos szempontú vizsgálata (Studiul mofetelor din Transilvania din punctul de vedere al științei mediului)”, director: Urák István, 2007-2008 (**membru**), contract. nr. 672/2007, valoarea 18388 RON
- KPI (Institutul Programelor de Cercetare al Fundației Sapientia), Proiectul „Székelyföldi posztvulkanikus jelenségek tanulmányozása (Studierea fenomenelor postvulcanice din zona secuimii)”, director Néda Tamás, 2008-2009 (**membru**), valoarea: 10000 RON
- KPI (Institutul Programelor de Cercetare al Fundației Sapientia), Proiectul „Utóvulkáni működés környezeti hatásai a Keleti Kárpátokban” (Efectele ambientale ale fenomenelor postvulcanice în Carpații Orientali), 2010-2011, **director** A. Szakács, contract nr. 48/9/09.04.2010, valoarea 11265 RON
- KPI (Institutul Programelor de Cercetare al Fundației Sapientia), Proiectul „Vizek és vizes élőhelyek környezettudományos szempontú vizsgálata Erdély vulkáni eredetű

hegyekben (Studiul complex al habitatelor umede și a calității apei în munții de origine vulcanică din Transilvania), 2012–2013, membru, valoarea 9000 RON

- KPI (Institutul Programelor de Cercetare al Fundației Sapiientia), Proiectul „Tőzeglápok környezettudományos szempontú vizsgálata a Keleti-Kárpátok vulkáni eredetű hegyekben (Studiul complex al tinovurilor din munții de origine vulcanică din Carpații Orientali), 2013-2014, membru, valoarea 7000 RON
- KPI (Institutul Programelor de Cercetare al Fundației Sapiientia), Proiectul „Tőzeglápok környezettudományos szempontú vizsgálata a Keleti-Kárpátok vulkáni eredetű hegyekben (Studiul complex al tinovurilor din munții de origine vulcanică din Carpații Orientali), 2014-2015, membru, valoarea 7000 RON

## **H. Creația artistică**

### **H1 Participări la manifestații artistice internaționale**

### **H2. Participări la manifestații artistice naționale**

### **H3. Expoziții, filme, spectacole, concerte, discuri de autor, opere internaționale**

### **H4. Expoziții, filme, spectacole, concerte, discuri de autor, opere naționale**

### **H5. Produse cu drept de proprietate intelectuală în domeniul artistic**

## **I. Premii, distincții**

Distincția de excelență în educație „Kiváló Oktató” – Universitatea Sapiientia, 2015

Data: 19.09.2019.

Dr. Szakács Alexandru

