



PERSONAL DATA

Name / Surname **Har, Nicolae**

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Natioanlity romana

Date of birth 23.07.1962

Gender Male

Position Associate prof., dr.
Department of Geology

EMPLOYMENT HISTORY

a – Academic staff
b – Engineer geologist

Period a - 1991-
b – 1986 - 1991

Function or position held a – University teaching staff as follows: assistant professor (1991-1996), head of works (1996-2008), associate professor (2008- present),
b - geological engineer in prospecting and exploration of metalliferous deposits

Main activities and responsibilities a – specific teaching activities in fundamental disciplines in the field of Geology: Magmatic and metamorphic petrology, Volcanology, Material strength and geomechanics, Regional petrology of Romania
b – geological prospecting and exploration

Name and address of employer b - Babes-Bolyai University, Str. Kogalniceanu 1, 400084 Cluj-Napoca
c – Geological Prospecting and Exploration Enterprise Cluj, Geological Brigade Complex Iara (later Transgex Cluj), Str Buftea 6, Cluj-Napoca

Type of activity or sector of activity a - education, research
b – geological prospecting and exploration

Experience in projects

1) Project title: Complementary programs for substantiating a decision in choosing a professional route at the Faculty of Chemistry and Chemical Engineering, Physics, Biology and Geology (Pro Practica CFB), project position: practical expert.
 Project director Marcu Alexandru • Department of Biomolecular Physics • 2014-05-01 -> 2015-05-01, Category: Structural Funds, Authority: AMPOSDRU, Program type: POS-DRU, Project type: POS-DRU . Partnership type: coordinator, Partner list: NATIONAL INSTITUTE FOR RESEARCH AND DEVELOPMENT FOR ISOTOPIC AND MOLECULAR TECHNOLOGIES INCNTIM FROM CLUJ NAPOCA - INCNTIM - partner;

2)Project title: THE FUTURE OF PLANET EARTH-VIPP,
 Project director: Har Nicolae • Department of Geology • 2017-07-01 -> 2020-07-01
 Administrative unit: Center for Scientific Research Management, Start date: 2017-07-01, End date: 2020-07-01, Duration (number of months): 36, Duration (number of years): 3
 Category: National, Authority: MEN-UMPFE, Program type: ROSE - Romania Secondary Education, Project type: SGU - University Grants Scheme. Project code: , Contract number: 2/SGU/PV/I.

EDUCATIONAL BACKGROUND

Period - PhD in Geology (1993-1999)
 - Student in Geological and Geophysical Engineering, Babes-Bolyai University (1981-1986)

Qualification / diploma obtained - PhD in Geology
 - Geological Engineer

Main disciplines studied / professional skills acquired Advanced skills in the mineralogical and petrographic characteristics of igneous and metamorphic rocks/their fields of use
 - specific geological disciplines in the curriculum

Name and type of educational institution/training provider Babes-Bolyai University

Personal skills and competencies

Native language Romanian

Foreign languages English, French

Evaluation
 European level (*)

Understanding				Speaking				Writing	
Listening		Read		Conversation		Oral spech		Writing exprimation	
A1	engleza	A2	engleza	C2	engleza	C2	engleza	B1	engleza
C1	franceza	C1	franceza	B2	franceza	B2	franceza	C2	franceza

(*)Common European Framework of Reference for Languages Level

Social skills and abilities -ability to adapt to multicultural environments;
 - good communication skills, obtained as a result of teaching experience and coordination of students' practice activities

Organizational skills and abilities -managerial skills – leadership positions (10-50 people)
 - experience in research project management;

Computer skills and abilities - good command of Microsoft Office™ tools and computer graphics applications

Additional Information - over 60 scientific articles
 - author, co-author of 4 specialized books

WOS articles

1. Ratschbacher, L., Linzer, H. G., Moser, K., **Har, N.**, Strusievicz, R.O., Bedelean, H., Mogoş, A.(1993) *Cretaceous to Miocene thrusting and wrenching along the central South Carpathians due to a corner effect and orocline formation*. *Tectonics*, 12, nr. 4, 855 – 873.
2. **Har, N.** (2005) *Reaction coronas around quartz xenocrysts in the basaltic andesite from Detunata (Apuseni Mountains, Romania)*. *Geologica Carpathica* 56, 4, 369 – 378
3. **Har Nicolae**, Gorea Maria, Benea Ion-Marcel, *Mineralogy of degradation processes affecting the mortar from Buru dam (Ariesului valley, Cluj county)* , *Science_Citation_Expanded*, *STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA*, LIV/1 , 2009, P.253 – 264.
4. **Har Nicolae**, Ruzs Ottilia, Codrea Vlad-Aurel, Barbu Ovidiu, *NEW DATA ON THE MINERALOGY OF THE SALT DEPOSIT FROM SOVATA (MUREŞ COUNTY-ROMANIA)*, *Science_Citation_Expanded*, *CARPATHIAN JOURNAL OF EARTH AND ENVIRONMENTAL SCIENCES* , 5/2, 2010, P.127 – 135
5. **Benea Ion-Marcel, Gorea Maria, Har Nicolae**, *Materiale tegulare romane de la Sarmizegetusa - (1) caracteristici mineralogice si fizice*, *Science_Citation_Expanded*, *REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS* , 37/3, 2007, P.219 – 228
6. **Benea Ion-Marcel, Gorea Maria, Har Nicolae**, *Tegular material from Sarmizegetusa – (2) Mineralogical and physical characteristics of the raw material*, *Science_Citation_Expanded*, *REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS* , 40, 3, 2010, P.228 – 236
7. Gorea Maria, Benea Ion-Marcel, **Har Nicolae**, Rujoni Ioana Olivia, *Synthesis and characterization of cordierite for diesel filters*, *Science_Citation_Expanded*, *STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA*, 4, 2013, P.71 – 80
8. **Gorea Maria, Cuius Alexandrina, Kiss Zoltan, Har Nicolae**, *Chemical and microstructural characterisation of concrete mineral additives*, *Science_Citation_Expanded*, *STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA*, LIX, 4, 2014, P.75 – 86
9. **Pinzaru Simona, Brezestean Ioana, Har Nicolae, Tantau Alina, Gorea Maria, Venter Monica-Mihaela**, *Analytical study of gallstones in patients from Transylvania, Romania* , *STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA*, 2015, 1 ,29 – 43.
10. **Margarit Nistor, Har Nicolae, Marchetti Dori Simona, Bigi Simona, Gualtieri Alessandro**, *Progress in mineralogical quantitative analysis of rock samples: application to quartzite from Denali National park, Alaska Range (SUA)*, *Powder Diffraction* 2016, 31 (1), 31 – 39.
11. **Pausan Manuela, Andrei Adrian-Stefan, Banciu Horia-Leonard, Barbu-Tudoran Lucian, Tamas Tudor-Liviu, Har Nicolae, Leopold Nicolae**, *Diversity and Biomineralization Potential of the Epilithic Bacterial Communities Inhabiting the Oldest Public Stone Monument of Cluj-Napoca (Transylvania, Romania)*, Volum Nr: 08(e1029) · March 2017, Pagina: 1 – 13;
12. **Gorea Maria, Har Nicolae**, *Study of (Pb, Ba) - CRT glass waste behaviour as a partial aggregate replacement in cement mortars*, Volum Nr: 4, Tom II , Pagina: 343 - 356, Număr identificare articol: d10.24193, Număr pagini: 14, Tip lucrare: article, An: 2017;
13. **Tamas Calin-Gabriel, Har Nicolae, Marza Ioan, Denuț Ioan**, *The black calcite and its mineral assemblage in Herja ore deposit, Romania*, Volum Nr: 30, 6, Pagina: 1 - 13, Număr identificare articol: 0030-2779, Număr pagini: 13, Tip lucrare: article, An: 2018,
14. **Har, N., Lăzărean , A., Iliescu, M., Ciont, N., Abrudan, I., F.** (2019). Degradation processes of iron-sulfides and calcite containing aggregates from asphaltic mixtures. *Construction and Building Materials* 212, 745–754;
15. Ilies Marin, **Har Nicolae**, Hodor Nicolaie, Ilies Camelia Dorina, Caciora Tudor, Baias Stefan, Farida Akiyanova (2021). Degradation and Geomycological Aspects Regarding the Natural Stone from Built Outdoor. *Carpathian Journal of Earth and Environmental Sciences*.16/2, 391-402.
16. Mircescu, C.V., **Har, N.** & Tămaş, T. (2022). Microfacies, physical and mechanical properties of carbonate rocks from the Apuseni Mountains, Romania: implication for delineating potential ornamental limestone extraction areas. *Carbonates Evaporites* **37**, 27 (2022). <https://doi.org/10.1007/s13146-022-00770-9>.
17. Corbu Ofelia, Puskas Attila, Dragomir Mihai-Liviu, Toma Ionut-Ovidiu, **Nicolaer Har**, (2023), *Eco-Innovative Concrete for Infrastructure Obtained with Alternative Aggregates and a Supplementary Cementitious Material (SCM)*, Volum Nr: 13 (10), 1710, Pagina: 1 - 34,: COATINGS;
18. **Har Nicolae**, Gheorghiu Robert Ionel (2023), *Nature of Infill Material on the Discontinuities of the Muntele Mare Granite (Romania)* , *GEOTECHNICAL AND GEOLOGICAL ENGINEERING*, 41/7, 4044 – 4055
19. Agharabi, A., Karrat, L., Ettensohn, F.R., Har, N., Gourari, L., Bedelean, H., Balica, C., Mircescu, C.V., 2025. Clay minerals origin and paleoclimate implications in Quaternary deposits of the Saïs Plain, Fez-Morocco. *Scientific African* 27(5). <https://doi.org/10.1016/j.sciaf.2024.e02505>

20. Agharabi, A., Jeddi, E.M., Karrat, L., Har, N., Ntarmouchant, A., Forray, F.L., Gourari, L., Balica, C., Mircescu, C.V., Mali, B., Bedeleian, H., 2025. Hydro-chemical study and assessment of drinking and irrigation water quality in the Oued Fez watershed (Fez city and surrounding areas, Saïs Basin, Morocco). *Environmental Advances*, <https://doi.org/10.1016/j.envadv.2025.100639>.
21. B. Mali, M. Dahire, A. Ntarmouchant, Y. Driouch, T. Bento dos Santos, N. Har, M. Elabouyi, E.M. Jeddi, H. Smaili, S. Zerouali, N. Ntarmouchant, T. Catita, B. Cotrim, A.R. Rosa, F. Laguenini, M. Belkasm. Clinopyroxene geochemistry and zoning as a petrogenetic tool to assess the crystallization conditions of the alkaline Talzast Dome (Middle Atlas, Morocco). *Journal of African Earth Sciences*. Volume 231, November 2025, 105785

BDI papers

1. Venter Monica-Mihaela, Pinzaru Simona, **Har Nicolae**, Statov N. , *Ft-micro Raman prospects on fluoride-treatment influence on human teeth* , STUDIA UNIVERSITATIS BABES BOLYAI. PHYSICA, Categ CNCSIS B+, LIV, 2 , 2009, P.59 – 68;
2. Maicaneanu Sanda-Andrada, **Har Nicolae**, **Avram Simona**, Keri Agnes, Rusu Tiberiu, *Considerations on acid mine drainage treatment with zeolitic volcanic tuff* , BULETIN STIINTIFIC AL UNIVERSITATII DE NORD BAIA MARE, SERIA D, EXPLOATARI MINIERE, PREPARAREA SUBSTANTELOR MINERALE UTILE, METALURGIE NEFEROASA, GEOLOGIE SI INGINERIA MEDIULUI, Categ CNCSIS B+, XXIV , 2010, P.59 – 68;
3. Luttge-Pop Dana, Andrei Razvan A., **Har Nicolae**, *Historical Romanian meteorites: emendations of official catalogue records*, STUDIA UNIVERSITATIS BABES BOLYAI. GEOLOGIA, Categ CNCSIS B+, Studia Universitatis Babes-Bolyai Geologia (Studia UBB Geologia), 58(2), 2013, P.41 – 45;
4. Bounegru George, Timofan Anca, Anghel Dan, Chintoanu Mircea, Cadar Sergiu, Tanaselia Claudiu, Ursu Monica, **Har Nicolae**, *Studii cu privire la compozitia si provenienta mortarelor cu lanti minerali utilizati la constructia edificiilor antice de la Apulum*, APULUM. ACTA MUSEI APULENSIS, Categ CNCSIS B+, LI, 2014, P.561 – 592;
5. Ursu Monica, Anghel Dan, **Har Nicolae**, *Consideratii cu privire la producerea figurinelor din ceramica in cadrul oficinilor romane de la Apulum* , TERRA SEBVS. ACTA MVSEI SABESIENSIS, Categ CNCSIS B, 6, 2014, P.259 – 279;
6. Rotea, M., Har, N., Săsăran, L., Bodea, M. (2016). Stone artefacts from the Coțofeni settlement from Bretea Mureșană, Geoarcheological analyses. *Acta Musei Napocensis*, 52/1, 2016, 61-72.
7. Luminiata Monica Molnar, Danela Manea, Nicolae Har (2011). Te study of hydration process of cement using optical microscopy and X-ray diffraction. ModTech International Conference-New face of TMCR.Modern technologies, Quality and Inovation. 25-27 May 2011 Chisinau, 1-4.
8. **ZAHARIA LUMINITA, HAR NICOLAE, Vlazan Marius**, *Geochemical investigation of Neogene volcanoclastic rocks from the south-eastern part of the Zarand Basin (Apuseni Mts., Romania) - implications for locating the source area* , Volum Nr: , Pagina: 5 - 15, Număr identificare articol: , Număr pagini: 11, Tip lucrare: nespecificat, An: 2016, Mențiuni: .
Revistă BDI indexată în BDI nespecificată : Studia Universitatis Babes-Bolyai Geologia , ISSN:

Papers in conference proceedings

1. **Ayman AGHARABI, Nicolae HAR, Lahcen GOURARI**. *Clay Minerals Association of the Quaternary Fluvial Deposits in Fez Area*. In Ed. Attila Çiner et al. Recent Research on Environmental Earth Sciences, Geomorphology, Soil Science and Paleoenvironments. Proceedings of the 2nd MedGU, Marrakesh 2022 (Volume 4), 31-34.

Books:

1. **Har Nicolae** (2001) *Andezite bazaltice alpine din Muntii Apuseni*, CASA CARTII DE STIINTA , CLUJ-NAPOCA, Editor: Har N., 2001, P. 214
2. **Har Nicolae** (2005) *Petrologie magmatica. Elemente de petrogeneza si produsele magmatismului*, CASA CARTII DE STIINTA , CLUJ-NAPOCA, 2005, P. 195

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