

*Dr. Alida Timar-Gabor*

**LIST OF PUBLICATIONS**

**ONLY THE ARTICLES PUBLISHED FOLLOWING THE PhD DEFENSE ARE LISTED BELOW**

**The most important 10 studies published after obtaining the title of Doctor in Science**

In the papers marked by "\*" Dr Timar-Gabor is the corresponding author and has created the research design.

1. \***Timar-Gabor A.**, Ivascu C., Vasiliniuc, S., Daraban, L., Ardelean I., Cosma, C., Cozar C., 2011. Thermoluminescence and optically stimulated luminescence properties of  $0.5 \text{ P}_2\text{O}_5 \times x \text{ BaO} \times (0.5-x) \text{ Li}_2\text{O}$  glass systems. *Applied Radiations and Isotopes*, Volume 69, Issue 5, 780-784. (FI=0.999)  
<http://www.sciencedirect.com/science/article/pii/S0969804311000297>
2. \***Timar-Gabor A.**, Vasiliniuc Ş., Vandenberghe D.A.G., Cosma C, Wintle A.G., 2012. Investigations on the reliability of SAR-OSL equivalent doses obtained for quartz samples displaying dose response curves with more than one component, *Radiation Measurements* 47, 470-475, DOI: 10.1016/j.radmeas.2011.12.001. (FI= 0.861)  
<http://www.sciencedirect.com/science/article/pii/S1350448711005671>
3. \*Constantin D., **Timar-Gabor A.**, Veres D., Begy R., Cosma C., 2012. SAR-OSL dating of quartz of different grain sizes extracted from a loess section in southern Romania embedding the Campanian Ignimbrite/Y5 tephra layer, *Quaternary Geochronology*, 10, 81-86. (FI= 4.015).  
<http://www.sciencedirect.com/science/article/pii/S1871101412000143>
4. \*Vasiliniuc Ş., Vandenberghe D.A.G., **Timar-Gabor A.**, Panaiotu C. , Cosma C. ,Van den haute P., 2012. Testing the potential of elevated temperature post-IR-IRSL signals for dating Romanian loess, *Quaternary Geochronology*, 10, 75-80 (FI= 4.015).  
<http://www.sciencedirect.com/science/article/pii/S1871101412000398>
5. \*Zeciu-Dolha M., **Timar-Gabor A.**, Camenita A., Costin D., Cosma C, 2013. Gamma background measurements by TL method: applications in locations with varied geological background. *Carpathian Journal of Earth and Environmental Sciences*, 8(4), 109-114. (FI=1.495)  
<http://www.ubm.ro/CJEES/>
6. \***Timar-Gabor A.**, Trandafir O., 2013. On the luminescence properties of household salt as a potential retrospective dosimeter, *Radiation Protection Dosimetry*, 155 (4), pp. 404-409. (FI=0.909)  
<http://rpd.oxfordjournals.org/content/155/4/404>
7. \*Paşcu, A.R., Vasiliniuc, S., Zeciu-Dolha M., **Timar-Gabor A.**, 2013. The potential of luminescence signals from electronic components for accident dosimetry. *Radiation measurements*, 56, 384-388. (FI= 0.861)  
<http://www.sciencedirect.com/science/article/pii/S1350448713001455>
8. \***Timar-Gabor A.**, Wintle A.G., 2013. On natural and laboratory generated dose response curves for quartz of different grain sizes from Romanian loess. *Quaternary Geochronology*, 18, 34-40. (FI= 4.015)  
<http://www.sciencedirect.com/science/article/pii/S187110141300071X>
9. \*Constantin D., Begy R., Vasiliniuc S., Panaiotu C., Necula C., Codrea V., **Timar-Gabor A.**. High resolution OSL dating of the Costineşti section Romania using fine and coarse quartz. *Quaternary International*, 334-335, 20-29. (FI=1.962)  
<http://www.sciencedirect.com/science/article/pii/S1040618213003492>
10. Markovic S., **Timar-Gabor A.** , Stevens T., Hambach U., Popov D., Tomic N., Obreht I., Janovic M., Lemhkuhl, Kels H., Markovic R., Gavrilov M.B., 2014. Environmental dynamics and luminescence chronology from Orlovat loess-palaeosol sequence (Vojvodina, Northern Serbia). *Journal of Quaternary Science*, 29 (2), 189-199. (FI= 2.939)  
<http://onlinelibrary.wiley.com/doi/10.1002/jqs.2693/abstract>

a) **Doctoral thesis**

“Retrospective luminescence dosimetry: applications in archaeology, geology and environmental science”- Babes-Bolyai University of Cluj Napoca. Public defense on June 12<sup>th</sup>, 2010. Scientific Promoter-Profesor Dr. Constantin Cosma.

b) **Patents-not applicable**

c) **Books and Book Chapters**

1. **Alida Timar-Gabor**, Retrospective luminescence dosimetry: applications in archaeology, geology and environmental studies, **Presa Universitara Clujeana**, 2012, 219 p, ISBN: 978-973-595-373-7.
2. **Alida Timar-Gabor**, Thermoluminescence and optically stimulated luminescence dosimetry: applications in environmental sciences. In romanian „Dozimetrie prin termoluminescență (TL) și luminescență stimulată optic (OSL): aplicații în studii de mediu”, **Presa Universitară Clujeană** 2013, 400 p., ISBN: 978-973-595-534-2.
3. **Alida Timar-Gabor, Environmental Physics -Lecture notes** for undergraduate students in environmental engineering, 104p, Faculty of Environmental Science and Engineering, Babes-Bolyai University of Cluj Napoca. Available online: <http://enviro.ubbcluj.ro/studenti/suport%20de%20cursuri.php>
4. **Alida Timar-Gabor, Environmental Radioactivity- Lecture notes** for undergraduate students in environmental engineering and environmental science, 261p. Faculty of Environmental Science and Engineering, Babes-Bolyai University of Cluj Napoca. Available online: <http://enviro.ubbcluj.ro/studenti/suport%20de%20cursuri.php>
5. **Alida Timar-Gabor, Octavian Dului, Nuclear dating techniques used in sedimentology and paleoclimatic reconstruction- Lecture notes** for master students in environmental engineering and environmental science, 280p. Faculty of Environmental Science and Engineering, Babes-Bolyai University of Cluj Napoca. Available online: <http://enviro.ubbcluj.ro/studenti/suport%20de%20cursuri.php>
6. **Alida Timar-Gabor, Constantin Cosma, Laboratory experiments in Environmental Radioactivity** for undergraduate students in environmental engineering and environmental science, 120p. Faculty of Environmental Science and Engineering, Babes-Bolyai University of Cluj Napoca. Available online: <http://enviro.ubbcluj.ro/studenti/suport%20de%20cursuri.php>
7. Mircea Anton, **Alida Timar-Gabor, Laboratory experiments in Physics** for undergraduate students in environmental engineering and environmental science, 113p. Faculty of Environmental Science and Engineering, Babes-Bolyai University of Cluj Napoca. Available online: <http://enviro.ubbcluj.ro/studenti/suport%20de%20cursuri.php>

d) **Articles in peer-reviewed journal, indexed in ISI database, published following the doctoral studies, other than the ones mention at point a)**

1. Benea V., **Timar-Gabor A.**, Iovu M., Colomeico E., Cosma C., Shpotyuk, O.I., 2011. TL and OSL dosimetric properties of Ge30As4S66 chalcogenic glass system doped with Dy. *Journal of Optoelectronics and Advanced Materials*, 13, 1447 - 1449. <http://joam.inoe.ro/index.php>
2. Begy R. CS., Dreve S., Timar-Gabor A. , Rusu O.A., Cosma C., 2012. Measurement of radium content in some spring waters from Romania. *Environmental Engineering and Management Journal*, vol 11, nr 2, 1005-

1009. <http://connection.ebscohost.com/c/articles/75498627/measurements-radium-content-some-spring-waters-from-romania>
3. Vasiliniuc Ş., Vandenberghe D.A.G., **Timar-Gabor A.**, Cosma C., van den haute P., 2013. Combined IRSL and POST-IR OSL dating of Romanian loess using single aliquots of polymineral fine grains, *Quaternary International*, 293, 15-22. <http://www.sciencedirect.com/science/article/pii/S1040618212000092>
  4. Vespremeanu –Stroe A., Preoteasa L., Hanganu D., Brown, T., Branzescu I, P. Toms, **Timar-Gabor A.**, 2013. The impact of the Late Holocene coastal changes on the rise and decay of the ancient city of Histria (Southern Danube Delta). *Quaternary International*, 293, 245-257. <http://www.sciencedirect.com/science/article/pii/S1040618212033575>
  5. Vasiliniuc Ş., Vandenberghe D.A.G., **Timar-Gabor A.**, van den Haute P., Cosma C., 2013. Conventional IRSL dating of Romanian loess using single aliquots of polymineral fine grains, *Radiation Measurements*, 48 (1), pp. 60-67. <http://www.sciencedirect.com/science/article/pii/S1350448712003241>
  6. Corcea, C., Constantin, D., Anechitei, V., **Timar-Gabor A.**, Filipescu S., 2013. OSL dating of 63-90 µm quartz extracted from an Eemian (presumably lacustrine) sedimentary section at Floreşti on the Someşu Mic Valley. *Carpathian Journal of Earth and Environmental Sciences*, 1, 139-145. <http://www.ubm.ro/CJEES/>
  7. Veres D., Lane C., **Timar-Gabor A.**, Constantin D., Szakacs A., Hambach U., Fullig A., Onac B. P., 2013. The Campanian Ignimbrite tephra layer - a regional stratigraphic marker for the MIS 3 loess deposits of Romania, *Quaternary International*, 293, 22-34. <http://www.sciencedirect.com/science/article/pii/S1040618212001231>
  8. Constantin, S., Robu, M., Munteanu, C-M., Petculescu, A., Vlaicu, M., Mirea, I., Kenesz, M., Dragusin, M., Hoffman D., Anechitei, **Timar-Gabor A.**, V., Roban R., Panaiotu C., 2014. Reconstructing the evolution of cave systems as a key to understanding the taphonomy of fossils accumulations. The case of Ursilor Cave (Western Carpathians, Romania). *Quaternary International*, 334-335, 20-29. <http://www.sciencedirect.com/science/article/pii/S1040618213007842>
  9. Anechitei-Deacu V., **Timar-Gabor A.**, Fitzsimmons K., Veres D., Hambach U., 2014. Multi-method luminescence investigations on quartz of different sizes extracted from a loess section in Southeast Romania interbedding the Campanian Ignimbrite ash layer. *Geochronometria*, 41,1, 1-14. <http://link.springer.com/article/10.2478/s13386-013-0143-4>
  10. Paşcu A.R., **Timar-Gabor A.**, 2014. Electronic components as luminescence retrospective accident dosimeters, *Romanian Reports in Physics*, vol 66, nr 3. <http://www.rrp.infim.ro/inpress.html>

**e) Full text articles in peer review volumes dedicated to proceeding of international conferences, published published following the doctoral studies, other than the ones mention at point a)**

1. Begy, R. Cs., **Timar Gabor A.**, Somlai J., Cosma C., 2011. A sedimentation study of St. Anna Lake (Romania) applying the <sup>210</sup>Pb and <sup>137</sup>Cs dating methods. *Geochronometria*, 38(2), 93-100. <http://link.springer.com/article/10.2478/s13386-011-0017-6>  
Paper presented at the international conference "10<sup>th</sup> international conference "Methods of Absolute Chronology", 21-25 April 2010, Gliwice, Poland.
2. Vasiliniuc, S., **Timar-Gabor A.**, Vandenberghe, D.A.G., Panaiotu, C.G., Begy, R. Cs., Cosma, C., 2011. A high resolution optical dating study of the Mostiștea loess-palaeosol sequence (SE Romania) using sand-sized quartz. *Geochronometria*, 38(1), 34-41. <http://link.springer.com/article/10.2478/s13386-011-0007-8>  
Paper presented at the international conference "10<sup>th</sup> international conference "Methods of Absolute Chronology", 21-25 April 2010, Gliwice, Poland.

3. C. Ivascu, **Timar-Gabor A.**, Cozar O., Daraban, L., Ardelean I., **2011**. FT-IR, RAMAN and thermoluminescence investigation of  $P_2O_5$  -BaO-Li<sub>2</sub>O glass system. *Journal of Molecular Structure*, *Journal of Molecular Structure*, 93, 249-253.  
<http://www.sciencedirect.com/science/article/pii/S0022286010009130>  
Paper presented at the international conference "30<sup>th</sup> European Congress on Molecular Spectroscopy", University of Florence, Florence 29 August-3 September, 2010.
4. **Timar-Gabor A.**, Vasiliniuc S., Vandenberghe D., Constantin D., Cosma C., Luminescence dating of archaeological materials and sediments in Romania using quartz, **2011**. *Romanian Reports in Physics*, 63, 929-939.  
<http://www.rrp.infim.ro/>  
Paper presented at the Romanian National Archaeometry Symposium, Bucharest, 28-29 October 2010.
5. Cosma, C., Rusu O.A., Cosma, V., Nita, D., Begy, R. Cs., **Timar-Gabor, A.**, Astilean, A., **2012**. Protection of Alpha Spectrometry Detectors Using Thin Formvar Films and Influence on Detection Characteristics, *IEEE Transactions on Nuclear Science* 59 (4 PART 1), art. no. 6153411, pp. 1175-1179 DOI: 10.1109/TNS.2012.2184802.  
<http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=23>  
Paper presented at the international conference "Conference on Radiation Effects on Components and Systems (RADECS)", University of Sevilla, Sevilla, Spain, September 19-23, 2011.
6. **Timar-Gabor A.**, Vasiliniuc Ș., Vandenberghe D.A.G., Cosma C, Wintle A.G., **2012**. Investigations on the reliability of SAR-OSL equivalent doses obtained for quartz samples displaying dose response curves with more than one component, *Radiation Measurements* 47, 470-475, DOI: 10.1016/j.radmeas.2011.12.001.  
<http://www.sciencedirect.com/science/article/pii/S1350448711005671>  
Paper presented at the international conference "13<sup>th</sup> International Conference on Luminescence and Electron Spin Resonance Dating (LED 2011)", 09-14 July 2011, Torun, Polonia.
7. Pașcu A.R., Vasiliniuc, S., Zeciu-Dolha M., **Timar-Gabor A.**, **2013**. The potential of luminescence signals from electronic components for accident dosimetry. *Radiation Measurements*, 56, 384-388.  
<http://www.sciencedirect.com/science/article/pii/S1350448713001455>  
Paper presented at the international conference "8<sup>th</sup> International Conference on Luminescent Detectors and Transformers of Ionizing Radiation" (LUMDETR), Martin Luther Univ. Halle Wittenberg, Halle, Germania, 10-14 September 2012.
8. Preoteasa, L., Vespremeanu-Stroe, A., Hanganu, D, Katona, O., **Timar-Gabor, A.** **2013**. Coastal changes from open coast to present lagoon system in Histria region (Danube delta). *Journal of Coastal Research*, Special Issue No. 65, ISSN 0749-0208.  
[http://ics2013.org/papers/Paper4160\\_rev.pdf](http://ics2013.org/papers/Paper4160_rev.pdf)  
Paper presented at the international conference "12<sup>th</sup> International Coastal Symposium", Plymouth University, 8-12 April 2013.
9. Ivascu, C., **Timar-Gabor A.**, Cozar, O., **2013**. FT-IR and thermoluminescence investigation of  $P_2O_5$ -BaO- $K_2O$  glass system . *AIP Conf. Proc.* 1565, 108-11.  
<http://dx.doi.org/10.1063/1.4833707>  
Paper presented at the international conference "Processes in Isotopes and Molecules" (PIM 2013), Cluj-Napoca, 25-27 September 2013.
10. Dolha, M., **Timar-Gabor, A.**, Dicu, T., Begy, R., Anton, M., Cosma, C., **2014**. A high resolution map of gamma dose rates in Cluj County, Romania using LiF: Mg, Cu, P detectors. *Radiation Protection Dosimetry*, acceptat, ID: NCU209.  
<http://rpd.oxfordjournals.org/>  
Paper presented at the international conference "Second international Conference on Radiation and Dosimetry in various fields of research", 27-30 May, Nis, Serbia.

11. Cosma C., Cucos A., Papp B., Begy R., Gabor A., Bican-Brisan N., Besutiu L., **2014**. Radon Implications in life and earth science: Baita-Stei area and Peceneaga-Camena Fault (Romania). *Carpathian Journal of Earth and Environmental Science*, 9(2) 15-21.  
<http://www.ubm.ro/CJEES/>  
Paper presented at the international conference "First East European radon symposium", FERAS 2012, September 2 - 5, 2012, Cluj-Napoca, Romania.
  12. Cucos-Dinu A., Vasiliniuc S., **Timar-Gabor A.**, Manea P., Cosma C., **2014**. Contribution of Radon dose to the patient exposure in the mofette of Covasna sanatorium, Romania. *Carpathian Journal of Earth and Environmental Science*, 9(3) 69-74. (FI=1.495)  
<http://www.ubm.ro/CJEES/>  
Paper presented at the international conference "First East European radon symposium", FERAS 2012, September 2 - 5, 2012, Cluj-Napoca, Romania.
  13. Lukić T., Basarin B., Buggle B., Marković, S., Tomović, V.M., Popov Raljić J., Hrnjak I., **Timar-Gabor, A.**, Hambach U., Gavrilov, M., **2014**. A joined rock magnetic and colorimetric perspective on the Late Pleistocene climate of Orlovat loess site (Northern Serbia). *Quaternary International*, 334-335, 179-188.  
<http://www.sciencedirect.com/science/article/pii/S1040618214001797>  
Paper presented at the international conference "Loess in China and in Europe", 27-30 September 2012, Novi Sad, Serbia.
  14. Feurdean, A., Persoiu, A., Tantau, I., Stevens, T., Markovic, S., Magyari, E., Onac, B.P., Andric, M., Connor, S., Galka, M., Hoek, W.Z., Lamentowicz, M., Sümegi, P., Persoiu, I., Kolaczek, P., Kuneš, P., Marinova, E., Slowinski, M., Michczyńska, D., Stancikaite, M., Svensson, A., Veski, S., Fărcaș, S., Tămaș, T., Zernitskaya, V., **Timar, A.**, Tonkov, S., Toth, M., Willis, K.J., Płóciennik, M., Gaudeny T., **2014**. Climate variability and associated vegetation response throughout Central and Eastern Europe(CEE) between 8 and 60 kyrs ago. Special Issue: 4th INTIMATE, *Quaternary Science Reviews*, accepted.  
DOI:10.1016/j.quascirev.2014.06.003.  
<http://www.sciencedirect.com/science/journal/aip/02773791>  
INTIMATE Workshop on Terrestrial Records from Eastern Europe INTIMATE - COST Action ES0907. 7 -9 March 2013, Cluj-Napoca, Romania
- f) **Other studies**
1. **Timar-Gabor, A.**, Cosma, C., Begy, R., Jobaggy, V., Szeiler, G., Barbos, D., Fulea, D. **2011**. Estimation of radionuclides in soils - a comparison of methods for annual dose estimation in luminescence dating, *ECOTERRA*, 26, 119-124.  
<http://www.ecoterra-online.ro/ro/numarul26-2011/>
  2. Constantin, D., **Timar-Gabor, A.**, Cosma, C., **2011**. Monitorizarea radioactivitatii mediului prin utilizarea dozimetrelor cu termoluminescenta, *ECOTERRA*, 26, 39-43.  
<http://www.ecoterra-online.ro/ro/numarul26-2011/>
  3. Zeciu Dolha M., **Timar-Gabor A.**, Constantin D., Cosma C., **2011**. Aplicatii ale dozimetrie prin termoluminescenta in domeniul medical. *ECOTERRA*, 28, 187-192.  
<http://www.ecoterra-online.ro/ro/numarul28-2011/>
  4. **Timar A.**, Vandenberghhe D., Vasiliniuc S., Cosma C., **2009**. Optical dating of Romanian loess: A comparison between sand-sized and silt-sized quartz. *Loessfest '09 - International conference on loess research*, Novi Sad, Serbia, p. 77-78, ISBN: 987-86-7031-211-1.  
<http://inqua-loess.org/loessfest09/index.php>

5. **Timar-Gabor A., 2012.** When, where and why do apparently robust laboratory dating procedures provide discordant chronologies on Romanian loess? *International Conference on Loess Research. ED@80's. Loess in China and Europe.* Novi Sad, Serbia, p. 57, ISBN: 978-86-7031-283-8  
<http://inqua-loess.org/ed80s/index.php>
6. **Timar-Gabor A., 2013.** Insights Gained from Optically Stimulated Luminescence Dating of Romanian Loess. 2013 Meeting of INQUA – Section on European Quaternary Stratigraphy (SEQS) 23-27<sup>th</sup> September 2013, Constanta (Romania) *Correlations of Quaternary Fluvial, Eolian, Deltaic and Marine Sequences, National Institute of Marine Geology and Geoecology GeoEcoMar – Bucharest, 2013, 35,* ISBN 978-973-0-15477-1.  
<http://www.inqua-seqs.org/publications/>
7. Constantin D., Panaiotu C., Necula C., Codrea V., **Timar-Gabor A., 2013.** Optically Stimulated Luminescence Dating of the Lunca Loess Section (Olt Valley, SW Romania) Using 63-90  $\mu\text{m}$  Quartz. 2013 Meeting of INQUA Section on European Quaternary Stratigraphy (SEQS) 23-27<sup>th</sup> September 2013, Constanta (Romania) *Correlations of Quaternary Fluvial, Eolian, Deltaic and Marine Sequences, National Institute of Marine Geology and Geoecology GeoEcoMar – Bucharest, 2013, 35,* ISBN 978-973-0-15477-1. <http://www.inqua-seqs.org/publications/>
8. Anechitei-Deacu, V., **Timar-Gabor A.,** Fitzsimmons K., Veres D., Hambach U., **2013.** The Campanian Ignimbrite as a Widespread Chronostratigraphic Marker for Late Quaternary Sedimentary Deposits in Romania: New Chronological Constraints. 2013 Meeting of INQUA – Section on European Quaternary Stratigraphy (SEQS) 23-27<sup>th</sup> September 2013, Constanta (Romania) *Correlations of Quaternary Fluvial, Eolian, Deltaic and Marine Sequences, National Institute of Marine Geology and Geoecology GeoEcoMar – Bucharest, 2013, 35,* ISBN 978-973-0-15477-1. <http://www.inqua-seqs.org/publications/>
9. Steopoaie-Cardan I., Vespremeanu-Stroe, A., Preoteasa L., Constantin D., **Timar-Gabor A., 2013.** The Evolution of the Southern Danube Delta and its Impact on Histria Ancient City Development. 2013 Meeting of INQUA –Section on European Quaternary Stratigraphy (SEQS) 23-27<sup>th</sup> September 2013, Constanta (Romania) *Correlations of Quaternary Fluvial, Eolian, Deltaic and Marine Sequences, National Institute of Marine Geology and Geoecology GeoEcoMar – Bucharest, 2013, 34,* ISBN 978-973-0-15477-1.  
<http://www.inqua-seqs.org/publications/>

19<sup>th</sup> of June 2014

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