

## Секция „Земен магнетизъм“

### 2019 година

1. Jordanova, N., Jordanova, D., Barrón, V., Lesigyarski, D., Kostadinova-Avramova, M., 2019. Rock-magnetic and color characteristics of archaeological samples from burnt clay from destructions and ceramics in relation to their firing temperature. *Archaeological and Anthropological Sciences*; <https://doi.org/10.1007/s12520-019-00782-y>, IF=2.414. quartile Q1
2. Antoine, P., Lagroix, F., Jordanova, D., Jordanova, N., Lomax, J., Fuchs, M., Debret, M., Rousseau, D.-D., Hatté, C., Gauthier, C., Moine, O., Taylor, S.N., Till, J.L.b, Coutard, S., 2019. A remarkable Late Saalian (MIS 6) loess (dust) accumulation in the Lower Danube at Harletz (Bulgaria). *Quaternary Science Reviews*, 207, 80-100. IF=4.334. quartile Q1
3. Kostadinova-Avramova, M. and Jordanova, N., 2019. Study of cooling rate effect on baked clay materials and its importance for archaeointensity determinations.
4. *Physics of the Earth and Planetary Interiors*, 288, 9-25. IF=2.156. quartile Q2.
5. Jordanova, N., Jordanova, D., Mokreva, A., Ishlyanski, D., Georgieva, B., 2019. Temporal changes in magnetic signal of burnt soils - A compelling three years pilot study. *Science of the Total Environment*, 669, 729-738. IF=4.61. quartile Q1
6. Lomax, J., Fuchs, M., Antoine, P., Rousseau, D.-D., Lagroix, F., Hatté, C., Taylor, S.N., Till, J.L., Debret, M., Moine, O., Jordanova, D., 2019. A luminescence-based chronology for the Harletz loess sequence, Bulgaria. *Boreas*, 48 (1), 179-194. IF=2.638. quartile Q2
7. Trifonova, P. , Metodiev, M. , Stavrev, P. , Simeonova, S. and Solakov, D. (2019) Integration of Geological, Geophysical and Seismological Data for Seismic Hazard Assessment Using Spatial Matching Index. *Journal of Geographic Information System*, 11, 185-195. doi: 10.4236/jgis.2019.112013

### 2018 година

7. Jordanova, D., Jordanova, N., Barrón, V., Petrov, P. , 2018 The signs of past wildfires encoded in the magnetic properties of forest soils. *Catena*, 171, 265-279, 2018. IF=3.256. quartile Q1
8. Jordanova, N., Jordanova, D., Kostadinova-Avramova, M., Lesigyarski, D., Nikolov, V., Katsarov, G., & Bacvarov, K. 2018. A mineral magnetic approach to determine paleo-firing temperatures in the Neolithic settlement site of Mursalevo-Deveboaz (SW Bulgaria). *Journal of Geophysical Research: Solid Earth*, 123. <https://doi.org/10.1002/2017JB015190>, IF=3.48 quartile Q1
9. Kostadinova-Avramova, M., Jordanova, N., Jordanova, D., Grigorov, V., Lesigyarski, D., Dimitrov, P., Bozhinova, E. 2018. Firing temperatures of ceramics from Bulgaria determined by rock-magnetic studies. *Journal of Archaeological Science: Reports* 17: 617–633, SJR=0.659
10. Srebrov, B., Pashova, L., Kounchev, O. 2018 Study of local manifestations of G5 – extreme geomagnetic storms (29–31 october, 2003) in mid-latitudes using geomagnetic data by continuous wavelet transforms. *Comptes Rendus de L'Academie Bulgare des Sciences* 71(6), 803-811. IF=0.27 quartile Q4
11. Orlyuk, M., Marchenko, A., Srebrov, B. , 2018. Earth's magnetic field components for Bulgaria: Results of calculations. 17th International Conference on Geoinformatics - Theoretical and Applied Aspects, paper Code 13802.
12. Srebrov, B., Logvinov, I., Rakhlin, L., Kováčiková, S. , 2018. Results of the magnetotelluric investigations at geophysical observatories in Bulgaria. *Geophysical Journal International*, 215(1), 165-180, IF=2.528 quartile Q2

- 13.Димитров, П., Костадинова-Аврамова, М. 2018. Интердисциплинарно изследване на средновековна пещ от Велики Преслав. Приноси към българската археология, VIII, НАИМ – БАН, София, , ISSN:2603-3410, 199-206
- 14.Симеонов С., Солаков Д., Георгиев И., Вацева Р., Димитров Д., Стефанов Д., Симеонова С., Трифонова П., Васева Е., Черкезова Е., Александрова И., Канева А., Върбанов М., Методиев М., Райкова П., Динков Д.. Методика за анализ, оценка и картографиране на сеизмичния риск на Република България. Бюлетин "Строителство и архитектура", 5, ИТУС'98, 2018, 132
- 15.Petya Trifonova, Metodi Metodiev, Petar Stavrev, Stela Simeonova, Dimcho Solakov. Methodology for numerical integration of different data types for the purposes of seismic hazard assessment. IX National Conf. of Bulgarian Geophys. Soc., 2018

#### 2017 година

16. Jordanova, N., Petrovský, E., Kapicka, A., Jordanova, D., Petrov, P., 2017. Application of magnetic methods for assessment of soil restoration in the vicinity of metallurgical copper-processing plant in Bulgaria. Environmental Monitoring and Assessment, 189, Article number 158, IF=1.804 . quartile Q3
- 17.Attoucheik, L., Jordanova, N., Bayou, B., Lagroix, F., Jordanova, D., Maouche, S. Henry, B. , Boutaleb, A., 2017. Soil metal pollution from former Zn-Pb mining assessed by geochemical and magnetic investigations: case study of the Bou Caid area (Tissemsilt, Algeria). ENVIRONMENTAL EARTH SCIENCES, 76 (7), Article Number: 298; DOI: 10.1007/s12665-017-6622-9, IF=1.435 quartile Q3
- 18.Metodiev, M., Trifonova, P., 2017. Bulgarian Geomagnetic Reference Field (BulGRF) for 2015.0 and secular variation prediction model up to 2020. Annales Geophysicae, 35(5), 1085-1092; IF=1.621 quartile Q3
- 19.Йорданова Д., Йорданова, Н., Лесигярски, Д., Костадинова-Аврамова, М., Нехризов, Г.. Температури на изпичане на керамични съдове от желязната епоха от скален комплекс Глухите камъни. ТРАКИЙСКАТА ДРЕВНОСТ: ТЕХНОЛОГИЧНИ И ГЕНЕТИЧНИ ИЗСЛЕДВАНИЯ, ИСТОРИЯ И НЕМАТЕРИАЛНО НАСЛЕДСТВО, академично изд. на БАН „проф. Марин Дринов”, 2017, 73-83
- 20.Mokreva, A., Jordanova, N., Jordanova, D., Stoyanova, V., Petrov, P., 2017. "Evaluation of soil contamination degree in the region of Martitza-East thermal power plants using magnetic methods". Ecology&Safety, 11, 2017, ISSN:1314-7234, 70-84
- 21.Мокрева, А., Стоянова, В., Йорданова, Н.. Градско замърсяване в зелените зони на София - магнитометрично изследване на почвите в Борисовата градина. Булгед ООД, Българско геологическо дружество, 2017, ISSN:1313-2377, 115-116

#### 2016 година

- 22.Kostadinova-Avramova, M., Kovacheva, M., Jordanova, N. 2016. Early Neolithic Settlement Yabalkovo (Maritsa valley, Bulgaria) in the context of archaeomagnetic studies. Bulgarian e-Journal of Archaeology, ISSN 1314-5088. (ERIH+)
23. Jordanova, N. "Soil Magnetism. Applications in Pedology, Environmental Science and Agriculture". 1st Edition, Academic Press (Elsevier), 2016, ISBN:9780128092392, pp. 446
- 24.Jordanova, N., Jordanova, D. 2016. Rock-magnetic and geochemical characteristics of relict Vertisols—signs of past climate and recent pedogenic development. Geophysical Journal International, 205, Oxford University Press, ISSN:0956-540X, DOI:10.1093/gji/ggw067, 1437-1454. ISI IF:2.528. quartile Q2
- 25.Jordanova, D., Jordanova, N., 2016. Thermomagnetic behavior of magnetic susceptibility – heating rate and sample size effects. Frontiers in Earth Science, 3, open-access academic publisher, DOI:doi: 10.3389/feart.2015.00090, article 90. SJR=0.836

26. Jordanova, N., Jordanova, D., Petrov, P., 2016. Soil magnetic properties in Bulgaria at a national scale— Challenges and benefits. *Global and Planetary Change*, 137, Elsevier, ISSN:0921-8181, DOI:10.1016/j.gloplacha.2015.12.015, 107-122. IF:3.548 quartile Q1

27. Trifonova, P., Metodiev, M., 2016. Geophysical analysis of the eastern Rhodope region. *Comptes Rendus de L'Academie Bulgare des Sciences*, 69(5), 615-620; IF=0.27 quartile Q4

#### 2015 година

28. Kostadinova-Avramova, M. & Kovacheva, M., 2015. Further studies on the problems of geomagnetic field intensity determination from archaeological baked clay materials. *Geophys. J. Int.* 203, 588–604. IF=2.528 quartile Q2

29. Grozdanova, G., Popov, H., Kovacheva, M., Kostadinova-Avramova, M. 2015. The early mediaeval settlement at Kapitan Andreevo, South East Bulgaria: Relative and absolute chronology. *Arheologia Mileniului I P. Chr*, IV, pp. 451-475

30. Kovacheva, M., Jordanova, N., Kostadinova-Avramova, M. 2015. Archaeomagnetic Study of a Thracian Settlement (ca. 325-250 BC) near the City of Ispereh, NE Bulgaria – Ancient Firing Influence. *Archaeologia Bulgarica* XIX, #3, 37-50. SJR=0.147

31. Костадинова-Аврамова, М. & Ковачева, М., 2015. Изследване на магнетизма на археологически структури. Практически указания при работа на терен. *Българско е-Списание за Археология*, Vol. 5, pp. 163–175, ISSN 1314-5088. (ERIH+)

32. Jordanova, D., Jordanova N., Dimov, D., 2015. Palaeomagnetic and mineral magnetic studies on rock formations from Livingston Island, Antarctica. In: *BULGARIAN ANTARCTIC RESEARCH: A synthesis*. Eds. Ch. Pimpirev and N. Chipev, "St. Kliment Ohridski" University Press, Sofia, ISBN 978-954-07-3939-7; pp. 208-220.

33. Metodiev, M., Trifonova, P. 2015. Geomagnetic activity for the last solar cycle recorded in PAG observatory. 7th BgGS National Conference With International Participation "GEOPHYSICS 2015"

34. Mokreva A., Tcherkezova E., Jordanova N., 2015. Preliminary results from integrated magnetic and geomorphologic investigations of the archaeological site "Ada tepe" (Eastern Rhodopes). *Седма Национална Конференция по Геофизика с международно участие „Геофизика 2015”, 20 – 23 май 2015 г., София. Публикация на CD*

35. Petrov P. and Jordanova D., 2015. Effects of wildfires on soil magnetic properties – a pilot study. *Седма Национална Конференция по Геофизика с международно участие „Геофизика 2015”, 20 – 23 май 2015 г., София. Публикация на CD.*

36. Лесигярски, Д., Костадинова-Аврамова, М., Ковачева, М., Археоманитният метод като способ за решаване на различни проблеми в археологията. *Седма Национална Конференция по Геофизика с международно участие „Геофизика 2015”, 20 – 23 май 2015 г., София. Публикация на CD.*

37. Мокрева, А., Черкезова, Е., Йорданова, Н. 2015. Предварителни резултати от интегрирани магнитни и геоморфоложки изследвания на археологически обект „Ада тепе” (Източни Родопи). *7-ма Национална конференция по геофизика, CD-Rom, S6-P1.*

#### 2014 година

38. Solakov, D., Simeonova, S., Ardeleanu, L., (...), Trifonova, P., Cioflan, C. 2014. Hazard assessment for Romania-Bulgaria cross-border region. *Comptes Rendus de L'Academie Bulgare des Sciences*, 67(6), 835-842; IF=0.27 quartile Q4

39. Jordanova, D., Jordanova, N., Petrov, P., 2014. Magnetic susceptibility of road deposited sediments at a national scale - Relation to population size and urban pollution. *Environmental Pollution* 189, 239-251. IF=4.358 quartile Q1
40. Jordanova D., Jordanova N., Petrov P., 2014. Pattern of cumulative soil erosion and redistribution pinpointed through magnetic signature of Chernozem soils. *Catena*, 120, 46-56. IF=3.256 quartile Q1
41. Georgiev N., Henry B., Jordanova N., Jordanova D., Naydenov K., 2014. Emplacement and fabric-forming conditions of plutons from structural and magnetic fabric analysis: A case study of the Plana pluton (Central Bulgaria). *Tectonophysics*, 629, 138–154. IF=2.686 quartile Q2
42. Kovacheva M., Kostadinova-Avramova M., Jordanova N., Lanos Ph., Boyadzhiev Y., 2014. Extended and revised archaeomagnetic database and secular variation curves from Bulgaria for the last eight millennia. *Physics of the Earth and Planetary Interiors*, 236, 79–94. IF=2.156 quartile Q2
43. Kostadinova-Avramova, M., Kovacheva, M., Boyadzhiev, Y., 2014. Contribution of stratigraphic constraints of Bulgarian prehistoric multilevel tells and a comparison with archaeomagnetic observations. *Journal of Archaeological Science*, 43(1), 227-238; IF=3.061, quartile Q1
44. Kostadinova\_Avramova, M., Lesigyarski, D., M., Kovacheva, M. 2014. Archaeomagnetic study of two medieval ovens discovered in the Pliska Palace, North-eastern Bulgaria. *Bulgarian e-Journal of Archaeology*, vol. 4, 35-50
45. Диаконеску, М., Циофлан, К., Татару, Д., Алказ, В., Илиес, Й, Исикико, Е., Солаков, Д., Симеонова, С., Методиев, М., Калафат, Д., Пинар, А., Ючкан, Е., Догру, А., Зюлфикар, К., Алчик, Х., Козеоглу, А., Зюлфикар, Й., Кошкун, З., Каптан, Б., Юкер, Н., Трифонова, П. (редактор). Мрежа за сеизмична безопасност на Черно море (ESNET). Букурещ: CD PRESS, 2014, ISBN:978-606-528-195-0, стр. 1-104
46. Трифонова, П., Балан, С, Алказ, В., Юкер, Н.. Мрежа за сеизмична безопасност на Черно море. CD Press, Букурещ, 2014, ISBN:978-606-528-195.0, стр. 1-100
47. Srebrov, B., 2014. Investigation of Geological Structures on the Territory of Bulgaria by Resent Geoelectromagnetic Methods, January 2014, Conference: Tenth Anniversary Scientific Conference, "Space Ecology Safety", SES 2014.
48. Alcaz, V., Balan, S., Trifonova, P., Uker, N. 2014. Retea de siguranta la cutremure in bazinul marii negre. *Academos*, 2, 33, 45-49
- 2013 година
49. Jordanova, D., Jordanova, N., Werban, U., 2013. Environmental significance of magnetic properties of Gley soils near Rosslau (Germany). *Env. Earth Sci.*, 69 (5), 1719-1732. IF=1.435; quartile Q3
50. Jordanova, N., Jordanova, D., Liu, Q., Hu, P., Petrov, P., Petrovský, E., 2013. Soil formation and mineralogy of a Rhodic Luvisol - insights from magnetic and geochemical studies. *Global and Planetary Change*, 110, 397-413. IF=3.548, quartile Q1
51. Jordanova D., Goddu S.R., Kotsev Ts., Jordanova N., 2013. Industrial contamination of alluvial soils near Fe-Pb mining site revealed by magnetic and geochemical studies. *Geoderma* 192, 237 – 248. IF=3.74, quartile Q1
52. Srebrov B., Ladanyvskyy B., Logvinov I., 2013. An application of space generated geomagnetic variations for obtaining of the geoelectrical characteristics at Panagyurishte geomagnetic observatory region, *Comptes rendus de l'Academie bulgare des Sciences*, Tome 66, No 6, pp.857-864, IF=0.27, quartile Q4
53. Srebrov B., Orlyuk M., Pashova L., Makarenko I., Marchenko A., Savchenko A., 2013. Gravity and magnetic data inventory for investigation of the Black sea region, *Геодинамика/Geodinamics* № 2 (15), pp. 332-334, (ISSN 1992-142X)

54. Vatsheva, R., Solakov, D., Tcherkezova, E., Simeonova, S., Trifonova, P., 2013. Applying GIS in seismic hazard assessment and data integration for disaster management. Lecture Notes in Geoinformation and Cartography, (Springer series), 171-183
55. Trifonova, P., Solakov, D., Simeonova, S., Metodiev, M., Stavrev, P., 2013. Regional pattern of the earth's crust dislocations on the territory of Bulgaria inferred from gravity data and its recognition in the spatial distribution of seismicity. Pattern Recognition in Physics, 1, Copernicus Publisher, 2013, DOI:10.5194/prp-1-25-2013, 25-36
56. Kostadinova-Avramova, M. & Kovacheva, M., 2013. The magnetic properties of baked clays and their implications for past geomagnetic field intensity determination. Geophysical Journal International, Vol. 195, Issue 3, 1534-1550, ISSN: 1365-246X, IF 2.528, quartile Q2
57. Metodiev, M., Trifonova, P. 2013. Characteristics of the 2012 geomagnetic activity recorded in Panagyurishte observatory. Proceedings of the Second National Congress of Physical Sciences, 2013