

СПИСЪК

Публикации на гл. ас. д-р Мария Стефанова Стойчева-Шамати за участие в конкурса за заемане на академична длъжност „доцент“, обявен в „Държавен вестник“ – брой: 46, от дата 26.5.2023 г., по направление 4.4 „Науки за Земята“, научна специалност „Физика на океана, атмосферата и околоземното пространство“.

(Поредността и номерацията на научните публикации са извършени в съответствие с приложената справка за изпълнение на минималните изисквания за заемане на академичната длъжност “доцент”, дефинирани в Правилника за условията и реда за придобиване на научни степени и за заемане на академични длъжности в БАН)

В4. Хабилизационен труд – научни публикации (не по-малко от 10) в издания, които са реферирани и индексирани в световноизвестни бази данни с научна информация Scopus, Web of Science, ERIH+

1. **Chamati, M.**, Oynakov, E., Solakov, D., Aleksandrova, I., (2020). Effects of synchronization between ultralow frequency geomagnetic components variations and seismic noise. International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, 2020, pp. 535–542, DOI:10.5593/sgem2020/1.2/s05.068 SJR 0.232
2. Teodosiev, D., P. Nenovski, **M. Chamati**, D. Borisova and T. Nikolova (2019). Indexing of ULF/ELF electromagnetic emissions as a health and life quality factor. Proceedings of the 10th Congress of the Balkan Geophysical Society, 18-22 September 2019, Albena, Bulgaria, EAGE, DOI 10.3997/2214-4609.201902637. SJR 0.11
3. H. Chamati, **M.S. Stoycheva** and G.A. Evangelakis (2004). Immersed nano-sized Al dispersoids in an Al matrix: effects on the structural and mechanical properties by molecular dynamics simulations, J.Phys.: Condens. Matter Vol.16, 28, 5031-5042. IF2.9
4. Oynakov, E., Solakov, D., Aleksandrova, I., **Chamati, M.** (2020). Synchronization of micro-seismic noise and its statistical parameters before ridgecrest earthquake M7.1 on 6th of July 2019. International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, 2020, pp. 639–646, DOI:10.5593/sgem2020/1.2/s05.081, SJR 0.232
5. Borislav Andonov, **Maria Chamati** (2021). Local spectral characteristics of ultra-low frequency geomagnetic variations with moderate geomagnetic activity conditions at mid latitudes. 21th International Multidisciplinary Scientific GeoConference SGEM 2021, 21, ISBN: 978-619-7603-20-0, ISSN: 1314-2704, DOI:10.5593/sgem2021/1.1/s05.094, 779-786. SJR 0.232.
6. **Maria Chamati**, Borislav Andonov (2021). Ultra-low frequency geomagnetic pulsations observed at mid latitudes in Panagjurishte, Bulgaria. 21th International Multidisciplinary Scientific GeoConference SGEM 2021, 21, ISBN: 978-619-7603-20-0, ISSN: 1314-2704, DOI:10.5593/sgem2021/1.1/s05.104, 855-862. SJR 0.232
7. Nenovski, P., **Chamati, M.**, Villante, M., De Lauretis, M. and P. Francia. Scaling characteristics of SEGMA magnetic field data around the Mw6.3 Aquila earthquake. Acta Geophysica, Vol. 61(2), pp.311-337, ISSN18957455, DOI10.2478/s11600-012-0081-1, IF 1.3
8. Petya Trifonova, Liliya Dimitrova, Metodi Metodiev, **Maria Chamati**, Plamena Raykova (2021). Earthquake effects recorded on magnetogram - where, when and why. 21th International Multidisciplinary Scientific GeoConference SGEM 2021, 21, 1.1,

ISBN: 978-619-7603-20-0, ISSN: 1314-2704, DOI:10.5593/sgem2021/1.1/s05.084, 693-700. SJR 0.232

9. **M. Chamati** and B. Andonov (2021). Effects of a Strong Thunderstorm on the ULF Geomagnetic Field Variations, Conference Proceedings, 11th Congress of the Balkan Geophysical Society, 10-15 Oct 2021, Volume 2021, Bucharest, Romania, EAGE, DOI: <https://doi.org/10.3997/2214-4609.202149BGS5>, SJR 0.11
10. **Maria Chamati**, Borislav Andonov (2022). Pc5 pulsations observed during the geomagnetic storm on 12 May 2021. 22nd International Multidisciplinary Scientific GeoConferenceSGEM 2022, 22, 2022, ISSN:1314-2704, DOI:10.5593/sgem2022/1.1/s05.063, pp.541-548, SJR 0.232.

Г7. Научни публикации в издания, които са реферирани и индексирани в световноизвестни бази данни с научна информация

1. **Chamati, M.** (2022). Characteristics of Pc5 pulsations activity at mid latitudes during December 2019. 22nd International Multidisciplinary Scientific GeoConference SGEM 2022, 22, 2022, ISSN: 1314-2704, DOI:10.5593/sgem2022/1.1/s05.059, pp.509-516, SJR 0.232.
2. **Chamati, M.** and E. Botev (2019). Nonlinear Analysis of Geomagnetic Variations Data from Panagyuriste Geomagnetic Observatory, Bulgaria. Proceedings of the 10th Congress of the Balkan Geophysical Society, 18-22 September 2019, Albena, Bulgaria, EAGE, DOI 10.3997/2214-4609.201902631. **(приложен протокол за личен принос на авторите)**

Г8. Научна публикация в нереферирани списания с научно рецензиране или в редактирани колективни томове

1. Бойчев Б, П. Неновски, **М. Стойчева-Шамати**, В. Бойчев (2005). Електротелурични измервания в ULF диапазона за изследване на краткосрочни предвестници на земетресения. Proceedings of Scientific Conference "SPACE, ECOLOGY, SAFETY" with International Participation - SES'2005, 10-13 June 2005, Varna, Bulgaria, Book 2, pp. 302-309. ISBN 9544384855, 9789544384852
2. Boytchev B., P. Nenovski, S. Dimitrova, K. Donkova, V. Boytchev, **M. Chamati**, E. Spassov (2006). Seismicity and measurements of electromagnetic forerunners in the Kresna's earthquake zone. "SPACE, ECOLOGY, SAFETY" 2006, 14-16 June 2006, Varna, Bulgaria. ISSN 1314-8702 http://space.bas.bg/SES/archive/SENS%202006_DOKLADI/CD/Papers.html
3. **Chamati, M.**, Nenovski, P., Vellante, M., Villante, U., Schwingenschuh, K., Boudjada, M., Wesztergom, V., (2011). Application of DFA method to magnetic field data. (Complex research of earthquake's forecasting possibilities, seismicity and climate change correlations), 13-16 September 2011, Tbilisi, Georgia, Volume 2, ISSN 2233-3681, pp. 72-79.
4. Nenovski, P., **M. Chamati** and P. Muhtarov (2011). What we can learn from the 2009 Mw6.3 L'Aquila earthquake. Complex research of earthquake's forecasting possibilities,

- seismicity and climate change correlations, 2-5 May 2011, Ohrid, Republic of Macedonia, Volume 1, ISBN 978-9989-631-04-7, pp.243-255.
5. Nenovski, P., **M. Chamati**, U. Villante, M. De Lauretis, M. Vellante, P. Francia, V. Wesztergom, K. Schwingenschuh, M. Boudjada, G. Prattes (2011). DFA analysis of SEGMA magnetic field data around the M6.3 Aquila EQ, Proceedings of the 2-nd workshop of EU FP7 project BlackSeaHazNet (Complex research of earthquake's forecasting possibilities, seismicity and climate change correlations), 13-16 September 2011, Tbilisi, Georgia, Volume 2, ISSN 2233-3681, pp. 157-163
 6. **Chamati, Maria**. (2018). Geomagnetic disturbances observed at Panagyuriste (PAG) station, Bulgaria on 7-8th of September 2017 during the geomagnetic storm. (2018). Proceedings of the IX National Geophysical Conference, Nov 30, 2018, Sofia, Bulgaria, ISSN-1314-2518, pp.10-16
 7. **Chamati, M.** (2020). ULF geomagnetic observation at Panagjuriste, Bulgaria as a tool for investigation of the magnetosphere-ionosphere-lithosphere system. Bulgarian Geophysical Journal, 43, 2021, ISSN: 2683-1317, DOI:10.34975/bgj-2020.43.8, 89-97.
 8. **Chamati, M.** (2021). ULF geomagnetic disturbances due to moderate geomagnetic storm at Panagjuriste, Bulgaria. Bulgarian Geophysical Journal, 44, ISSN: 2683-1317, DOI: 10.34975/bgj-2021.44.5, 53-59.
 9. **Chamati, M.** (2021). Spectral characteristics in ULF range of geomagnetic storm observed at Panagjuriste, Bulgaria on 27-28 September 2017. Bulgarian Geophysical Journal, 44, ISSN: 2683-1317, DOI:10.34975/bgj-2021.44.9, 109 – 116.
 10. **Chamati, M.** (2022). Investigation of the ULF geomagnetic noise recorded on MAY 1, 2020 at Panagjurishte geomagnetic observatory. Bulgarian Geophysical Journal, 45, ISSN: 2683-1317 (**приета за печат с приложен документ от списанието**)
 11. **Chamati, M.** (2022). The geomagnetic storm on November 3-4, 2021: spectral characteristics in ULF range at mid latitudes. Bulgarian Geophysical Journal, 45, ISSN: 2683-1317 (**приета за печат с приложен документ от списанието**)
 12. **Maria Chamati (2023)**. Disturbances in the geomagnetic field recorded on February 6, 2023. Proceedings of the XI National Geophysical Conference, June 9, 2023, Sofia, Bulgaria, ISSN-1314-2518.

Публикации извън конкурса:

1. B.V.Boychev, P.I.Nenovski, St.T.Ivanov, **M.Chamati**, L.Petrov, V.B.Boychev (2003). Equipment for measuring quasistatic and ULF variations of the Earth Electric Potential, BGJ, Vol.29,1 – 4, ISSN: 2683-1317, 31-41.
2. Б. Бойчев, П. Неновски, М. Шамати, Електромагнитни предвестници на активни сеизмични явления, Юбилейна научна сесия 2006 "130 години от Априлското въстание", НБУ "В. Левски", Д. Митрополия, 20-21. 04. 2006. Сборник доклади, Том 1, ISBN 978-954-713-079-1 (т.1), стр. 172-185.
3. P. Nenovski, B. Boychev, **M. Chamati**, S. Ivanov and I. Cholakov (2004). Electrotelluric ULF noise studies at the Krupnik fault, Proceedings, 4th National Geophysical Conference, 4-5 October 2004, Sofia, Bulgaria, ISSN 1314-2518
4. Nenovski, P., **Chamati, M.**, and Boytchev, B. (2005). ULF electrotelluric noise measurements at Krupnik seismic station (Bulgaria), Int. Workshop on Seismo

Electromagnetics, Proceedings of IWSE-2005, Tokyo, Japan, March 15-17, 2005, TERRAPUB, University of Electro-Communications, pp. 223-227

5. P. Nenovski, **M. Chamati** and B. Boytchev (2005). ULF Electromagnetic Signatures of Earthquake Preparation Processes-their Reliability and Analysis, 11-th International Scientific Conference "Solar-Terrestrial Influences", 23-25 November 2005, Sofia. , ISBN 954-91424-1-9, pp. 31-34.
6. Chamati, M., P. Nenovski, M. Vellante, U.Villante, K. Schwingenschuh, M. Boudjada, V. Wesztergom (2009). Application of DFA method to magnetic field data from SEGMA array. BGJ, Vol. 35, ISSN: 2683-1317, pp.3-16.

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