СПРАВКА

на доц. д-р инж. Любка Георгиева Пашова

За изпълнение на минималните изисквания за заемане на академичната длъжност „професор„, дефинирани в Правилника за условията и реда за придобиване на научни степени и за заемане на академични длъжности в БАН, съответно на изискванията по чл. 2б, ал. 5 от ЗРАСРБ и изискванията, съгласно Приложение 1 от този правилник

за участие в конкурс за заемане на академична длъжност „професор" , съгласно ЗРАСРБ, Постановление № 122/29.06.2018 г., Правилника на БАН (Приложение 1, 14.06.2021г.) и Правилника за академично израстване на НИГГГ-БАН

Област 5. Технически науки
Професионално направление, 5.7. Архитектура, строителство и геодезия

Минимални изисквани точки по група показатели за академична длъжност „професор:

Група от показатели	Съдържание	Изисквания за професор	Изпълнени от доц д-р инж. Любка Пашова
А	**Показател 1**	**50**	**50**
Б	**Показател 2**	**-**	**-**
В	**Показатели 3 или 4**	**100**	**227**
Г	**Сума от показателите от 5 до 11**	**200**	**423**
Д	**Сума от показателите от 12 до 15**	**100**	**1411**
Е	**Сума от показателите от 16 до края**	**150**	**358**
	ОБЩО	**600**	**2469**

1. По група показатели „А" – Успешно защитен дисертационен труд за присъждане на ОНС "Доктор" - 50 т.

Наукометричен показател	Брой точки постигнати от кандидата
1. **Дисертационен труд за присъждане на образователна и научна степен "доктор"** **Тема**: Изследване измененията на средното морско ниво по данни от мареографни измервания (2003), ЦЛВГ – БАН, защитена 2004 г. **Научна специалност**: 02.16.01. Обща, висша и приложна геодезия	**50**

2. По група показатели В – Общ брой точки, постигнати от кандидата 227

B4. Хабилитационен 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+	**Брой автори**	**60/n**
B4.1 Srebrov,B., **L. Pashova** (2012) Study of the ionospheric state over Sofia area during the geomagnetic storm in October 2003 using measured and modelled parameters, *Comptes Rendus de L'Academie Bulgare*	2	30

des Sciences, Vol. 65 (10), 1419-1426, **(WoS, Scopus) SJR(2021) = 0.19; Q2** Comptes rendus de l'Academie bulgare des Sciences (bas.bg)		
B4.2 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, *Geodynamics*, 15, 332-334, ISSN/eISSN: 1992-142X / 2519-2663**, (WoS),** JCR (2021)= 0.12, tyt1.doc (lpnu.ua)	6	10
B4.3 **Pashova, L.,** Koprinkova-Hristova, P.,Popova, S. (2013) Gap Filling of Daily Sea Levels by Artificial Neural Networks, *of sea transportation*, Vol. 7 (2), 225-232, DOI10.12716/1001.07.02.10; ISSN / eISSN:2083-6473 / 2083-6481 **(WoS),** JCR (2021)= 0.18, https://www.transnav.eu/Article_Gap_Filling_of_Daily_Sea_Levels_Pashova,26,431.html	3	20
B4.4 Mukhtarov, P., Pancheva, D. Andonov, B., **Pashova, L**. (2013a) Global TEC maps based on GNSS data: 1. Empirical background TEC model, *Journal of Geophysical Research - Space Physics*, Vol. 118 (7), 4594-4608, DOI: 10.1002/jgra.50413. **(WoS, Scopus), SJR(2021)= 0.872; Q2,** https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1002/jgra.50413	4	15
B4.5 Mukhtarov, P., Pancheva, D. Andonov, B., **Pashova, L**. (2013b) Global TEC maps based on GNNS data: 2. Model evaluation, *Journal of Geophysical Research - Space Physics*, Vol. 118 (7), 4609-4617, DOI10.1002/jgra.50412. **(WoS, Scopus), SJR(2021)= 0.872; Q2,** https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1002/jgra.50412	4	15
B4.6 . Bandrova, T., Kouteva, M., **Pashova, L**. Savova, D., Marinova, S. (2015) Conceptual framework for educational disaster centre "Save the children life", ISPRS International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Volume XL-3/W3, 2015, pp.225-234, DOI:10.5194/isprsarchives-XL-3-W3-225-2015, **(WoS, Scopus), SJR (2021) = 0.31,** https://www.int-arch-photogramm-remote-sens-spatial-inf-sci.net/XL-3-W3/225/2015/	5	12
B4.7 **Pashova, L.**, T. Bandrova (2017) A brief overview of the current status of European spatial data infrastructures - relevant developments and perspectives for Bulgaria, *Journal Geo-spatial Information Science*, 20 (2), 97-108, **(WoS, Scopus), SJR(2021)=0.910, Q2 (2021),** https://doi.org/10.1080/10095020.2017.1323524	2	30
B4.8 **Pashova, L**., A. Kortcheva, V. Galabov (2017) On the necessity of improving the research infrastructure in the western Black Sea for the purposes of flood risk management, NATO Science for Peace and Security Series C: Environmental Security, 2017, pp. 31–46, DOI: 10.1007/978-94-024-1071-6_7, **(WoS, Scopus), SJR(2020) = 0.109,** https://link.springer.com/chapter/10.1007/978-94-024-1071-6_7	3	20
B4.9 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 **(WoS, Scopus), SJR(2021) = 0.19; Q2 (2018), DOI: 10.7546/CRABS.2018.06.11,** Comptes rendus de l'Academie bulgare des Sciences (bas.bg)	3	20
B4.10 Ghawana T; **Pashova L**; Zlatanova S. (2021) Geospatial data 2tilization in national disaster management frameworks and the priorities of multilateral disaster management frameworks: Case studies of India and Bulgaria', *ISPRS International Journal of Geo-Information*, vol. 10, http://dx.doi.org/10.3390/ijgi10090610 **(WoS, Scopus) SJR(2021) = 0.72; Q1,** https://www.mdpi.com/2220-9964/10/9/610/htm	3	20
B4.11 Idrizi, B., **Pashova, L**., Nikolli, P. (2021) Lifelong training program on QGIS tools for Earth observation sciences in South-East Europe, *European Journal of Geography*, Vol.12 (3), 88 – 102, DOI: 10.48088/ejg.b.idr.12.3.88.102 **(Scopus), SJR(2021) = 0.22; Q3,** 06_EJG_2021_08_04_A_IDRIZI_61.pdf (eurogeojournal.eu)	3	20
B4.12 Dimitrova, L., E. Oynakov**, L. Pashova**, D. Dragomirov (2021) Assessment of the historical and recent seismicity of the Black Sea region. Proceedings of 21th International Multidisciplinary Scientific GeoConference SGEM 2021, 21, Issue 1.1, 21st International Multidisciplinary Scientific GeoConference SGEM 2021, 2022, ISBN:ISBN 978-619-7603-20-0, ISSN:1314-2704, DOI:10.5593/sgem2021/1.1/s05.078,	4	15

645-652. **(Scopus), SJR (2021)=0.14**, https://www.sgem.org/index.php/elibrary-research-areas?view=publication& task=show&id=7807		

3. По група показатели Г (Г7 + Г8 + Г9) – Общ брой точки, постигнати от кандидата (123.32 + 297.18 + 2.5) = 423

Г7. Научна публикация в издания, които са реферирани и индексирани в световноизвестни бази данни с научна информация	**Брой автори**	**40/n**
Г7.1 **Pashova, L.** (2014) Cartographic design of coastal flood risk maps: case studies for the Black Sea region, 5thInternational Conference on Cartography and GIS, e-Proceedings, publisher: Bulgarian Cartographic Association, 2014, Riviera, Bulgaria, 726-737, ISSN 1314-0604. **(WoS)**, https://cartography-gis.com/docsbca/5ICCandGIS_Proceedings.pdf	1	60
Г7.2. **Pashova, L.**, M. Kouteva-Guentcheva, T. Bandrova (2016) Towards mapping multi-hazard vulnerability of natural disasters for the Bulgarian territory, Proceedings, 6th International Conference on Cartography and GIS, 13-17 June 2016, Albena, Bulgaria, Eds: Bandrova T., Konecny M., 798-807, ISSN: 1314-0604. **(WoS),** ICCGIS2016-85.pdf (cartography-gis.com)	3	13.33
Г7.3 **Pashova, L.**, T. Bandrova, M. Kouteva-Guentcheva (2018) Usage of geo-data for educational purposes to improve disaster preparedness, In: Proceedings, 7th International Conference on Cartography and GIS, 18-23 June 2018, Sozopol, Bulgaria, 916-924, ISSN: 1314-0604, Eds: Bandrova T., Konečný M. **(WoS),** 7th International Conference on Cartography and GIS (cartography-gis.com)	3	13.33
Г7.4 Ilieva M., L. Filchev, **L. Pashova** (2018) Preliminary analysis of Copernicus data for natural hazards monitoring of the Bulgarian Black Sea coastal zone. Proceedings, 7th International Conference on Cartography and GIS, Vol.1, Bulgarian Cartographic Association, 2018, ISSN:1314-0604, 384-392 **(WoS),** 7th International Conference on Cartography and GIS (cartography-gis.com)	3	13.33
Г7.5 **Pashova, L.**, Srebrov, B., Kounchev, O. (2019) Investigation of Strong Geomagnetic Storms Using Multidisciplinary Big Data Sets, Big Data, Knowledge and Control Systems Engineering, BdKCSE 2019, 2019, 9010611 **(WoS, Scopus),** Investigation of Strong Geomagnetic Storms Using Multidisciplinary Big Data Sets | IEEE Conference Publication | IEEE Xplore	3	13.33
Г7.6 Filchev, L., **L. Pashova**, V Kolev, S Frye (2020) Chapter 6: Surveys, catalogues, databases/archives, and state-of-the-art methods for geoscience data processing, In: Knowledge Discovery in Big Data from Astronomy and Earth Observation. AstroGeoinformatics, P. Škoda & A. Fathalrahman (Eds.) pp. 103-136, ISBN 9780128191545, **(Scopus)** Chapter 6 - Surveys, Catalogues, Databases/Archives, and State-of-the-Art Methods for Geoscience Data Processing | Elsevier Enhanced Reader	4	10
Г8 Научна публикация в нереферирани списания с научно рецензиране или в редактирани колективни томове	**Брой автори**	**20/n**
Г8.1 Zlateva, P and **L. Pashova** (2011) Fuzzy logic application for assessment of the environmental risk in SW Bulgaria, Proc. of the Fourth International Scientific Conference - FMNS2011, 8 - 11 June 2011, Faculty of Mathematics and Natural Science, Vol. 1, SW University "N. Rilski" Blagoevgrad, 509-515.	2	10
Г8.2 Srebrov, B. and **L. Pashova** (2012) Investigation of the influence of strong geomagnetic storms on the signal parameters in GNSS station SOFI, Seventh Scientific Conference with International Participation SPACE, ECOLOGY, SAFETY, 29 November – 1 December 2011, Sofia, Bulgaria, 214-221, ISSN 1313-3888	2	10
Г8.3 **Pashova,L.**, D. Grozdev, S. Popova (2012) Multivariate analysis of sea levels and meteorological parameters using copula approach, Proceedings of Third international scientific congress, 4-6 October, 2012, TU Varna, Bulgaria, Vol. VII,18 – 25, ISBN 978-954-20-0556-8	3	6.67

Г8.4 **Пашова, Л.,** П. Копринкова-Христова, С. Попова (2012) Приложение на интелигентни методи за обработка и анализ на геодезически данни, Сборник доклади от Международна юбилейна научно-приложна конференция УАСГ 2012, 487-492, ISBN978-954-724-049-0	3	6.67
Г8.5 **Пашова, Л**., Г. Герова, К. Гръков, Р. Петков (2012) Приложение на глобалните спътникови навигационни системи за сондиране на атмосферата, Сборник доклади от Международна юбилейна научно-приложна конференция УАСГ 2012, 623-628, ISBN 978-954-724-049-0	4	5
Г8.6 Димитров Д, И. Няголов, С. Балабанова, Н. Лисев, Г. Кошинчанов, А. Корчева, Й. Марински, **Л. Пашова,** Д. Гроздев, В. Василев, Б. Божилов, Н. Цветкова (2013) Методика за оценка на заплахата и риска от наводнения, съгласно изискванията на Директива 2007/60/ЕС. НИМХ-БАН, МОСВ, 2013, 357 стр., Планове за управление на риска от наводнения (ПУРН) - Планове за управление – Води, МОСВ (government.bg)	12	1.66
Г8.7 **Пашова, Л.,** Д. Гроздев, Й. Марински, А. Корчева (2013) Устойчивото развитие на Българското Черноморие в условията на климатичнти промени и назаплахата и риска от наводнения в бреговата зона, сп. Устойчиво развитие, бр.6, 38 – 44, ISSN1314-4138	4	5
Г8.8 **Pashova, L.,** Kastreva, P., Idrizi, B. (2013) Enhancing cooperation between Bulgaria and FYROM through developing Web Geo-Services - Proceedings of the 5th International Scientific Conference - FMNS2013, 12 - 16 June, 2013, SWU,Blagoevgrad, Vol.7, 3-9, ISSN 1314-0272, Paper title (swu.bg)	3	6.67
Г8.9 **Pashova, L.,** Bandrova T., Kastreva P., Idrizi B. (2013) Prospects for the development of Web Geo-Services between Bulgaria and FYROM by applying the INSPIRE directive - INSPIRE and integrated land & water management scientific workshop. SDI Days2013, Proceedings, Shibenik, 26/27. Sept. 2013, 71-78. ISBN 978-953-293-519-6 (printed), ISBN 978-953-293-520-2 (digital), publisher: State Geodetic Administration, Croatia, https://www.bib.irb.hr/648040/download/648040.Hecimovic_Cetl_Ed_Proceedings_SDI_DAYS_2013.pdf	4	5
Г8.10 **Pashova L**., Bandrova T. (2013) INSPIRE Directive in Bulgaria until 2013 – results, problems and perspectives, In: Proceedings of SDI & SIM 2013 – International Conference, Skopje, FYRoM, 13-16 November, 2013, Y. Doytsher, B. Idrizi and C. Potsiou (eds.) 149 - 161. ISBN: 978-9989-936-43-2, COBISS.MK-ID 94982410	2	10
Г8.11 **Пашова Л,** Бандрова Т. (2014) Дали България постига Европейски измерими резултати при прилагане на Директивата INSPIRE. Геомедия, 1, ISSN:1313-3365, 38-45. https://www.geomedia.bg/geodesia/dali-balgariya-postiga-evropejski-izm/	2	10
Г8.12 Кутева, М., **Л. Пашова** (2014) Използване на информационни системи в процеса на оценка и управление на сеизмичния риск, Сб. Доклади от първа научно-приложна конференция „Управление на проекти в строителството”, 4-5 декември 2014 г., УАСГ, 239-245, ISSN 2367-6752.	2	10
Г8.13 **L. Pashova**, M. Kouteva T. Bandrova (2015) Review and Systematization of the Available Data for Earthquake Risk Mitigation in Bulgaria Using GIS, In: Proceedings of FIG Working Week, 17-21 May 2015, Sofia, Bulgaria, ISBN 978-87-92853-35-6, ISSN 2307-4086 http://www.fig.net/resources/proceedings/fig_proceedings/fig2015/papers/ts03d/TS03D_pashova_kouteva-guentcheva_et_al_7807.pdf	3	6.67
Г8.14 Kouteva M., **Pashova., L**., Bandrova T., Marinova S., Bonchev S., Markov M (2015) Conceptual Model of Information System for Expert Earthquake Risk Estimation for the BulgarianTerritory Using GIS Environment – Building Relevant Data Sets - CMDR COE Proceedings 2014-2015,15-35, Published by Crisis Management and Disaster Response Centre of Excellence, CMDR COE, ISSN 2367-766X, https://www.cmdrcoe.org/download.php?id=1459	6	3.33
Г8.15 **Пашова, Л**. (2015) Принос на геоинформационните науки и наблюденията на Земята за управление на риска от природни бедствия и аварии, Сб. Доклади от втора научно-приложна конференция с международно участие „Управление на проекти в строителството” (УПС2015), 5-6 ноември 2015 г., УАСГ, 126-131, ISSN 2367-6752	1	20

Г8.16 Кутева–Генчева, М., Кр. Бошнаков, **Л. Пашова**, Ф. Рангелова (2015) Съвременни възможности за управление на риска от природни бедствия и аварии , Сб. Доклади от втора научно-приложна конференция с международно участие „Управление на проекти в строителството" (УПС2015), 5-6 ноември 2015 г., УАСГ, 140-147, ISSN 2367-6752	4	5
Г8.17 Kouteva-Guentcheva M., **L. Pashova**, Boshnakov K. (2016) Comments on civil engineering coupling with IT for NDR mitigation in Bulgaria, CMDR COEProceeding 2016, Vol. 2, 125-146, ISSN 2367-766X, https://www.cmdrcoe.org/download.php?id=1458	3	6.67
Г8.18 **Pashova, L.,** A. Kortcheva, V.Galabov, M. Dimitrova (2017) Advantages of GIS-integrated maritime data in the Black Sea region for multipurpose use, CMRDCOE Proceeding, O. Nikolov et al. (Eds), Sofia, 218-233, ISSN 2367-766X, https://www.cmdrcoe.org/download.php?id=1457	4	5
Г8.19 **Пашова, Л.**, Б. Сребров (2017) Определяне границата на Мохоровичич за територията на България по спътникови гравиметрични данни, Сб. доклади ог 12 научна конференция с международно участие „Космос, екология, сигурност" SES 2016, София, 2 – 4 ноември 2016 г., 151-156. ISSN 1313-3888, http://space.bas.bg/SES/archive/SES%202016_DOKLADI/3_Remote%20Sensing/1_Pashova.pdf	2	10
Г8.20 Idrizi B., **L. Pashova**, I. Kabashi, M. Mulic, D. Krdzalic, D. Tutic, N. Vucetic, K. Kevic, G. Nikolic, R. Djurovic (2018) Study of length differences from topography to map projection within the state coordinate systems for some countries on the Balkan Peninsula. Proceedings, FIG Congress 2018, Turkey, International Federation of Surveyors, 2018, ISBN:978-87-92853-78-3, ISSN:2308-3441, https://www.fig.net/resources/proceedings/fig_proceedings/fig2018/papers/ts08e/TS08E_idrizi_pashova_et_al_9602.pdf	10	2
Г8.21 **Пашова, Л.**, Г. Николов (2018) Тестване на цифрови модели на релефа за ЮЗ България с ГНСС измервания, Годишник на УАСГ, София, Том 51, бр.9, 97-107. ISSN 1310-814X – печатно издание, ISSN 2534-9759, https://uacg.bg/UserFiles/File/UACEG_Annual/2018/%D0%91%D1%80%D0%BE%D0%B9%209/8--500.pdf	2	10
Г8.22 Kounchev O., **Pashova L.**, L. Filchev, D. Kalaglarski, V. Craciunescu, V. Galabov, E. Peneva, M. Ilieva, B. Srebrov, Z. Bibov (2018) SatWebMare products and services in support of the sustainable management of the Bulgarian coastal zone. Black Sea 2018 PROCEEDINGS, Varna Scientific and Technical Unions and Institute of Oceanology - BAS, 2018, ISSN:1314 – 0957, DOI:https://doi.org/10.7546/IO.BAS.2018.3, http://www.io-bas.bg/publications/proceedings/BS2018_PROCEEDINGS.pdf	10	2
Г8.23 Craciunescu, V., O. Kounchev, D. Kalaglarski, **L. Pashova**, L. Filchev, V. Galabov, M. Ilieva, B. Srebrov (2020) SatWebMare interactive web-mapping system in support of the sustainable management of the Bulgarian coastal zone, Varna Medical Forum, 9 (1), 78-83, ISSN 1314-8338 (Print), ISSN 2367-5519 (Online) https://journals.mu-varna.bg/index.php/vmf/article/view/7294	8	2.5
Г8.24 Filchev, L., **Pashova, L**. (2020) Analysis of the dynamics of built-up areas and artificial impervious surfaces of the Bulgarian coastal municipalities using GHSL and GAIA data. Proceedings of 8th International Conference on Cartography and GIS, 1, Bulgarian Cartographic Association, 2020, ISSN:1314-0604, 352-361, https://iccgis2020.cartography-gis.com/8ICCGIS-Vol1/8ICCGIS_Proceedings_Vol1_(38).pdf	2	10
Г8.25 Bandrova T., **Pashova L.** (2020) A conceptual framework for using geospatial Big Data for web mapping, In: 8th International Conference on Cartography and GIS. Proceedings Vol. 1, 2020, Nessebar, Bulgaria T. Bandrova, M. Konečný, S. Marinova Eds.), Publisher: Bulgarian Cartographic Association, Vol.1, pp. 521-534, ISSN: 1314-0604. https://iccgis2020.cartography-gis.com/proceedings-vol-1	2	10
Г8.26 **Пашова, Л**. (2020) Анализ на времеви редове от регистрации на морско ниво в мареографна станция Бургас чрез уейвлет преобразуване, Сборник доклади от XXX Юбилеен международен симпозиум на СГЗБ, София, 5-6.11.2020 г., 10 стр., CD ISSN 2367-6051, http://symp2020.geodesy-union.org/reports-bg/	1	20

Г8.27 Idrizi B, Maliqi E, **Pashova L** (2021) Spatial Database Designing for Environmental Monitoring and Decision Making in Mitrovica Region, The Republic of Kosovo, GEOSFERA INDONESIA, Vol. 6, No. 2, 189-204, ISSN 2598-9723, e-ISSN 2614-8528 **DOI:** https://doi.org/10.19184/geosi.v6i2.23934	3	6.67
Г8.28 Александров, Б., **Пашова Л**. (2021) Геодезически изследвания на БАБ „Св. Кл. Охридски" на о-в Ливингстън и приносът им за изучаване на съвременни геофизични процеси, X Национална конференция по геофизика, 4 юни 2021г., ISSN 1314 – 2518, https://doi.org/10.48368/bgs-2021.1.N1	2	10
Г8.29 **Пашова, Л.** (2021) Използване на данни от регистрации на черноморското ниво за изследване на цунами, Сб. доклади XXXI Международен симпозиум на СГЗБ, София, 04 - 05 ноември 2021 г., CD ISSN 2367-6051, http://sym2021.geodesy-union.org/wp-content/uploads/2021/11/XXXI-Symp2021-25.pdf	1	20
Г8.30 Александров Б., **Пашова Л.** (2021) Геодезически изследвания на БАБ „Св. Климент Охридски" в Антарктика и приносът им за проследяване на глобалните климатични промени, Сб. доклади XXXI Международен симпозиум на СГЗБ, София, 04 - 05 ноември 2021 г., CD ISSN 2367-6051. http://sym2021.geodesy-union.org/wp-content/uploads/2021/11/XXXI-Symp2021-26.pdf	2	10
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Г9. Публикувана глава от колективна монография	**10/n**	**2.5**
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Д12. Цитирания или рецензии в научни издания, реферирани и индексирани в световноизвестни бази данни с научна информация или в монографии и колективни томове	10	
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Забележка*: Номерата на цитираните публикации в скоби са съгласно общия списък с публикации.*

Д13. Цитирания в монографии и колективни томове с научно рецензиране	**3**	**69**
Брой цитирани публикации: 13 **Брой цитиращи източници: 23**	**23 броя**	

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5. По група показатели Е (Е18 + Е19 + Е20 + Е21 + Е22) – Общ брой точки, постигнати от кандидата (90 + 200 + 20 + 40+ 8) = 358

Е18. Участие в национален научен или образователен проект	**90**
1. Договор № ДН14/1/11.12.2018 с ФНИ на МОН по научноизследователски проект „Мониторинг на свлачищни процеси по Северното Черноморие на България чрез съвместно използване на данни от глобални навигационни спътникови системи и интерферометрични изображения от радари със синтезирана апертура", р-л доц. Мила Атанасова, 2018-2022г. (участник)	**10**
2. Договор ДСД 15/21.08.2019г., образователен проект „ Академия „Моят зелен град“ към проект „Образование с наука“ на МОН, р-л доц. Мариан Върбанов, 2019-2020г. (участник)	**10**
3. Договор ДН 02/13 с ФНИ към МОН по научноизследователски проект „Съвременни математически методи за анализ на Big Data и приложения“, р-л проф. О. Кунчев, ИМИ-БАН, 2016-2019г. (участник)	**10**
4. Научноизследователски проект „Изкуствените невронни мрежи (ANN) като инструмент за анализ и прогноза в областта на строителните материали и процеси“, ЦНИП- УАСГ, 2014-2015, р-л доц. Р. Захариева (участник)	**10**
5. Научноизследователски проект „Разработване на модел на интегрирана информационна система за експресна оценка на риска свързан със сеизмични въздействия за територията на България“, БН – 164/14; ЦНИП- УАСГ, 2014-2015, р-л доц. М. Кутева-Генчева (участник)	**10**
6. Проект "Комплексно изследване на съвременната геодинамика на Югозападна България", финансиран от ЦНИП на УАСГ, БА-2/2001г., 2002-2004 (участник)	**10**
7. Проект НЗ-1105/01 “Геодезическо изследване на съвременните геодинамични процеси в района на реките Места и Доспат”, р-л доц. И. Георгиев, 2002-2004 (участник)	**10**
8. Проект НЗ-1208/02 ”Геодезически мониторинг и изследване на свлачищни процеси”, р-л доц. Ц. Ценков, 2003-2006 (участник)	**10**

9. Проект на МОН ИО-02/2005г.: "2. Геодезически мониторинг на деформациите в района на Мировското солно находище", р-л доц. Д. Димитров, 2006-2008 (участник)	**10**
Е19. Участие в международен научен или образователен проект	**200**
1. Проект „GI-N2K (Geographic information: Need to Know, http://www.gi-n2k.eu/", Улрих Боес – координатор на българския партньор AGISEE, 2013-2016г. (участник) 2. Проект „MSG – 147: M&S support for Crisis and Disaster Management Processes and Climate Change Implications", с период на изпълнение март 2017 г. – януари 2020 г., изпълнител CMDR COE, София (участник) 3. Договор No: 4000124110/18/NL/SC по програма PECS на ЕКА за България от втора тръжна процедура 2016г., проект „Satellite-based Maritime Web-services for Bulgarian coastal area - SatWebMare", 2018-2022, ръководител: проф. дмн О. Кунчев, ИМИ - БАН (участник) 4. Член на Управителния съвет на COST Action CA18109 AGITHAR - Accelerating Global science In Tsunami HAzard and Risk analysis, Action CA18109 - COST 5. Договор No:2019/S12.819207/06 "Copernicus Awareness Raising Programme for Bulgaria – COPE4BG", съфинансиран по програма FP-CUP на ЕК, проект „Framework Partnership Agreement on Copernicus User Uptake", 2018-2022, р-л: проф. д-р Л. Филчев, ИКИТ – БАН (участник) 6. Проект по двустранно сътрудническво с Гърция НЗ-1210-Гц/2002: "Satellite Altimetry Studies of the Black Sea and Aegean", р-л доц. В. Коцев, 2003-2005 (участник) 7. Проект с Кралската обсерватория на Белгия, Департамент по сеизмология, Брюксел "Studies of seismotectonic manifestations of the earthquakes of 14 and 18 April 1928 in Southern Bulgaria", р-л доц Д. Димитров, 2004-2007 (участник) 8. Проект на тема: "Сегментация на активните разломи в Горнотракийската низина" по двустранен договар с Кралската обсерватория на Белгия, р-л доц. Д. Димитров, 2007-2008 (участник) 9. Проект по NATO SfP project 981881 "Monitoring Crustal deformation in West-Central Bulgaria and Northern Greece using the Global Positioning System (HemusNET)" по програма на НАТО "Science for Peace" р-л: проф. И. Георгиев, ЦЛВГ – БАН, 2006-2009 (участник) 10. Участник в проект "BALkan GEodetic Observing System - A scientific challenge for the Balkan countries (BALGEOS)", Австрийско федерално м-во на науката и изследванията, Център за социални иновации, р-л проф. Харалд Шу, 2008-2009; Balkan countries integration into GGOS (BALGEOS II), р-л проф. Р. Вебер (участник)	**20** **20** **20** **20** **20** **20** **20** **20** **20** **20**
Е20. Ръководство на национален научен или образователен проект	**20**
1. Ръководител на договор договор КП- 06-КОСТ/8 от 25.09.2020г. на тема „Геодезически и сеизмични изследвания в принос на оценката на опасността и риска от цунами в Черноморския регион", финансиран от ФНИ на МОН, 2020-2022г	**20**
Е21. Ръководство на международен научен или образователен проект	**40**
1. Научноизследователски проект БРС-15 (ДО1-1249/18.12.08) "Научно и технологично партньорство за изследване измененията на морското ниво и вертикалните движения на земната кора по западното Черноморие", финансиран от НФ"НИ" на МОН по конкурс за двустранно научно-техническо сътрудничество с Румъния, 2008-2010г.	**40**
Е22. Привлечени средства по проекти, ръководени от кандидата	**8**