

Справка за минимални изисквани точки по групи показатели за академичната длъжност „професор“ съгласно

**ПРАВИЛНИК
ЗА УСЛОВИЯТА И РЕДА ЗА ПРИДОБИВАНЕ НА НАУЧНИ СТЕПЕНИ И ЗА
ЗАЕМАНЕ НА АКАДЕМИЧНИ ДЛЪЖНОСТИ В БЪЛГАРСКА АКАДЕМИЯ НА
НАУКИТЕ**

Група от показатели А:

1. Име на дисертацията за образователната и научна степен „доктор“	точки
Астрофизически проложения на ефекта на гравитационна фокусировка на електромагнитното излъчване	50

Група от показатели В: минимум 100 т.

3. Монография	точки			т.
	100			
4. Статия	Q (WoS)	Q (Scopus)	SJR	т.
Rani, B., Gupta, A. C., Bachev, R., Strigachev, A., Semkov, E., D'Ammando, F., Wiita, P. J., Gurwell, M. A., Ovcharov, E., Mihov, B. , Boeva, S., Peneva, S.. Spectral Energy Distribution variation in BL Lacs and FSRQs. Monthly Notices of the Royal Astronomical Society, 417, 2011, 1881-1890		1		25
Bachev, R., Semkov, E., Strigachev, A., Gupta, A. C., Gaur, H., Mihov, B. , Boeva, S., Slavcheva-Mihova, L.. The nature of the intra-night optical variability in blazars. Monthly Notices of the Royal Astronomical Society, 424, 2012, 2625-2634		1		25
Gaur, H., Gupta, A. C., Strigachev, A., Bachev, R., Semkov, E., Wiita, P. J., Peneva, S., Boeva, S., Slavcheva-Mihova, L., Mihov, B. , Latev, G., Pandey, U. S.. Optical Flux and Spectral Variability of Blazars. Monthly Notices of the Royal Astronomical Society, 425, 2012, 3002-3023		1		25
Gaur, H., Gupta, A. C., Strigachev, A., Bachev, R., Semkov, E., Wiita, P. J., Peneva, S., Boeva, S., Kacharov, N., Mihov, B. , Ovcharov, E.. Quasi-simultaneous two band optical rapid variability of the blazars 1ES 1959+650 and 1ES 2344+514. Monthly Notices of the Royal Astronomical Society, 420, 2012, 3147-3162		1		25
Общ брой точки В				100

Група от показатели Г: минимум 220 т.

5. Монография (не хабилитационен труд)	точки			т.
	30			
6. Книга на базата на дисертация	точки			т.
	20			
7. Статия	Q (WoS)	Q (Scopus)	SJR	т.

Mihov, B. M., Slavcheva-Mihova, L. S.. Intra-night optical monitoring of a sample of broad absorption line quasars: first results. Bulgarian Astronomical Journal, 18c, 2012, 14-17		4		12
Slavcheva-Mihova, L. S., Mihov, B. M.. Intra-night optical monitoring of a sample of X-ray/radio selected AGNs: first results. Bulgarian Astronomical Journal, 18c, 2012, 18-22		4		12
Slavcheva-Mihova, L. S., Mihov, B.. NPM1G -10.0586: an emission-line companion of the Seyfert galaxy Mrk 509. Bulgarian Astronomical Journal, 18b, 2012, 18-21		4		12
Bachev, R., Strigachev, A., Semkov, E., Boeva, S., Peneva, S., Ibryamov, S., Stoyanov, K., Spassov, B., Tsvetkova, S., Mihov, B., Latev, G., Dimitrov, D.. Photometric reverberation mapping of Markarian 279. Bulgarian Astronomical Journal, 20, 2014, 26		4		12
Slavcheva-Mihova, L., Mihov, B., Iliev, I.. 3C 273 - half a century later. Bulgarian Astronomical Journal, 20, 2014, 51-58		4		12
Gaur, H., Gupta, A. C., Bachev, R., Strigachev, A., Semkov, E., Böttcher, M., Gu, M., Guo, H., Joshi, R., Mihov, B., Palma, N., Peneva, S., Rajasingam, A., Slavcheva-Mihova, L.. Nature of Intra-night Optical Variability of BL Lacertae. Monthly Notices of the Royal Astronomical Society, 452, 2015, 4263-4273		1		25
Mihov, B. M., Slavcheva-Mihova, L. S.. Spatial dependent systematic error correction and colour coefficients for the 2-m telescope of the Rozhen National Astronomical Observatory. Bulgarian Astronomical Journal, 27, 2017, 3-9		4		12
Raiteri, C. M., Villata, M., Acosta-Pulido, J., Mihov, B., Blazar spectral variability as explained by a twisted inhomogeneous jet. Nature, 552, 2017, 374-377		1		25
Slavcheva-Mihova, L. S., Mihov, B. M.. The AGN-host galaxy relation. Astronomical & Astrophysical Transactions, 30, 4, 2018, 363-366		4		12
Mihov, B., Slavcheva-Mihova, L.. A study of the high-luminosity quasar HS 1946+7658. AIP Conference Proceedings, 2075, 2019, 090020			0.19	10
Slavcheva-Mihova, L., Mihov, B.. IRAS 16511+2354: A type II quasar. AIP Conference Proceedings, 2075, 2019, 090019			0.19	10
Agarwal, A., Cellone, S. A., Andruchow, I., Mammana, L., Singh, M., Anupama, G. C., Mihov, B., Raj, A., Slavcheva-Mihova, L., Özdönmez, A., Ege, E.. Multiband optical variability of 3C 279 on diverse time-scales. Monthly Notices of the Royal Astronomical Society, 488, 3, 2019, 4093-4105		1		25
Slavcheva-Mihova, L., Mihov, B.. Radio morphology as a probe of the environment: the radio galaxy 3C 382. Proceedings of the IAU, 14, A30, 2020, 106-107		4		12
Agarwal, A., Mihov, B., Andruchow, I., Cellone, S. A., Anupama, G. C., Agrawal, V. :, Zola, S., Slavcheva-Mihova, L., Özdönmez, A., Ege, Ergün, Raj, A., Mammana, L., Zibecchi, L., Fernández-Lajús, E.. Multi-band behaviour of the TeV blazar PG 1553+113 in optical range on diverse timescales. Flux and spectral variations. Astronomy & Astrophysics, 645, 2021, A137		1		25
Agarwal, A., Mihov, B., Andruchow, I., Cellone, S., Anupama, G. C., Agrawal, V., Zola, S., Özdönmez, A., Ege, E.. Optical flux and spectral characterization of the blazar PG 1553 + 113 based on the past 15 years of data. Journal of Astrophysics and Astronomy, 43, 1, 2022, 9		3		15
8. Глава от книга или монография	точки			т.
	15			
9. Призната заявка за полезен модел, патент или авторско свидетелство	точки			т.
	25			
10. Публикувана заявка за патент или полезен модел	точки			т.
	15			
Общ брой точки Г			231	

Група от показатели Д: минимум 120 т.

11. Цитирана статия	цитираща статия (в WoS/Scopus) – 2 т.	т.
Съгласно списъка, приложен на стр. 5	88 цитата	
Общ брой точки Д		176

Група от показатели Е: минимум 150 т.

12. Научна степен „доктор на науките“	точки	т.
	75	
13. Ръководство на успешно защитил докторант	точки	т.
	50/n	
14. Участие в национален проект	точки	т.
„Връзка между астрономическите данни за атмосферата и екологичните параметри на въздуха“ , договор с Предприятие за управление на дейностите по опазване на околната среда (ПУДООС) – 2013 г., № 8785 от 16.01.2013 г. Ръководител на проекта: проф. д-р Таню Бонев	10	10
„Връзка между астрономическите данни за атмосферата и екологичните параметри на въздуха“ , договор с Предприятие за управление на дейностите по опазване на околната среда (ПУДООС) – 2015 г., № 10621 от 15.09.2015 г. Ръководител на проекта: проф. д-р Таню Бонев		10
„Пренос на маса и ъглов момент в астрофизиката“ , конкурс за финансиране на фундаментални научни изследвания на ФНИ – 2016 г., № ДН 08/1 от 13.12.2016 г. Ръководител на проекта: проф. д-р Евгени Семков		10
„Еволюционни процеси в астрофизиката: синергия между наблюдения и теория“ , конкурс за финансиране на фундаментални научни изследвания на ФНИ – 2017 г., № ДН 18/13 от 12.12.2017 г. Ръководител на проекта: проф. д-р Таню Бонев		10
15. Участие в международен проект	точки	т.
„Отражателно картографиране на квазари в поляризирана светлина“ , споразумение за двустранно сътрудничество със Сръбската академия на науките и изкуствата – 2020 г. Ръководител на проекта: доц. д-р Л. Славчева-Михова	20	20
16. Ръководство на национален проект	точки	т.
	20	
17. Ръководство на български екип в международен проект	точки	т.
„Polarization as a tool to study the Solar System and	50	50

beyond “, Европейската програма за сътрудничество в областта на науката и технологиите – 2011 г., COST акция MP1104 Ръководител на акцията: д-р Herve Lamy Член на управителния съвет на акцията от квотата на България: доц. д-р Б. Михов		
„Изследване на джетове на блазари чрез оптична микропроменливост на базата на съвместни астрономически наблюдения в България и Египет“, споразумение за двустранно сътрудничество с Египетската академия за научни изследвания и технологии – 2022 г., № IC-EG/09/2022-2024 Ръководител на проекта: доц. д-р Б. Михов		50
18. Привлечени средства по проекти, ръководени от кандидата	точки	т.
	1 т. за всеки 5000 лв	
19. Публикуван университетски учебник или учебник, който се използва в училищната мрежа	точки	т.
	40/n	
20. Публикувано университетско пособие или учебно пособие, което се използва в училищната мрежа	точки	т.
	20/n	
Общ брой точки Е		160

Дата:

Подпис:

Име и фамилия:

Списък с цитатите на доц. д-р Бойко Михов, покриващи минималните изисквания на БАН за заемане на академичната длъжност „професор“

2017	ТОЧКИ
<p>Raiteri, C. M., Villata, M., Acosta-Pulido, J. A., Agudo, I., Arkharov, A. A., Bachev, R., Baida, G. V., Benítez, E., Borman, G. A., Boschini, W., Bozhilov, V., Butuzova, M. S., Calciolone, P., Carnerero, M. I., Carosati, D., Casadio, C., Castro-Segura, N., Chen, W.-P., Damjanovic, G., D'Ammando, F., Di Paola, A., Echevarría, J., Efimova, N. V., Ehgamberdiev, Sh. A., Espinosa, C., Fuentes, A., Giunta, A., Gómez, J. L., Grishina, T. S., Gurwell, M. A., Hiriart, D., Jermak, H., Jordan, B., Jorstad, S. G., Joshi, M., Kopatskaya, E. N., Kuratov, K., Kurtanidze, O. M., Kurtanidze, S. O., Lähteenmäki, A., Larionov, V. M., Larionova, E. G., Larionova, L. V., Lázaro, C., Lin, C. S., Malmrose, M. P., Marscher, A. P., Matsumoto, K., McBreen, B., Michel, R., Mihov, B., Mineev, M., Mirzaqulov, D. O., Mokrushina, A. A., Molina, S. N., Moody, J. W., Morozova, D. A., Nazarov, S. V., Nikolashvili, M. G., Ohlert, J. M., Okhmat, D. N., Ovcharov, E., Pinna, F., Polakis, T. A., Protasio, C., Pursimo, T., Redondo-Lorenzo, F. J., Rizzi, N., Rodríguez-Coira, G., Sadakane, K., Sadun, A. C., Samal, M. R., Savchenko, S. S., Semkov, E., Skiff, B. A., Slavcheva-Mihova, L., Smith, P. S., Steele, I. A., Strigachev, A., Tammi, J., Thum, C., Tornikoski, M., Troitskaya, Yu. V., Troitsky, I. S., Vasilyev, A. A., Vince, O.. Blazar spectral variability as explained by a twisted inhomogeneous jet. <i>Nature</i>, 552, 2017, DOI:10.1038/nature24623, 374-377. SJR:18.134, ISI IF:40.137</p> <p><i>Цитира се в:</i></p> <p>Ehgamberdiev, Shuhrat. "Modern astronomy at the Maidanak observatory in Uzbekistan". <i>Nature Astronomy</i>, Volume 2, p. 349-351 (2018), @2018 Линк 2.000</p> <p>Fan, X-L., Li, S-K., Liao, N.-H., Chen, L., Liu, H.-T., Lu, K.-X., Yan, D.-H., Zhang, R.-Y., Guo, Q., Wu, Q., Bai, J.-M., Optical and Gamma-Ray Variability Behaviors of 3C 454.3 from 2006 to 2011, 2018, <i>ApJ</i>, 856, art. id. 80, @2018 Линк 2.000</p> <p>Gasparian, S., Sahakyan, N., Baghmanyan, V., Zargaryan, D., On the multi-wavelength Emission from CTA 102, 2018, <i>ApJ</i>, 863, art. id. 114, @2018 Линк 2.000</p> <p>González Pérez, J. N., Systematic study of the rapid optical-NIR variability of blazars and other AGNs, 2018, PhD Dissertation, Department Physik, Universität Hamburg, Germany, @2018 Линк 0.000</p> <p>Kaur, N., Baliyan, K. S., CTA 102 in exceptionally high state during 2016-2017, 2018, <i>A&A</i>, 617, art. id. A59, @2018 Линк 2.000</p> <p>Kim, D.-W., Trippe, S., Lee, S.-S., Kim, J.-Y., Algaba, J.-C., Hodgson, J., Park, J., Kino, M., Zhao, G.-Y., Wajima, K., Lee, J. W., Kang, S., Exploring the Nature of the 2016 gamma-ray Emission in the Blazar 1749+096, 2018, <i>MNRAS</i>, 480, 2324, @2018 Линк 2.000</p> <p>Latu, M. N., Levit, A. A., Objective difficulties in extracting data on the hierarchical correlation of technical terms from academic texts, 2018, <i>Liberal Arts in Russia</i>, 7, 396, @2018 Линк 0.000</p>	

- Li, X., Mohan, P., An, T., Hong, X., Cheng, X., Yang, J., Zhang, Y., Zhang, Zh., Zhao, W., Imaging and variability studies of CTA-102 during the 2016 January gamma-ray flare, 2018, ApJ, 854, art. id. 17, @2018 [Линк](#) **2.000**
- Meyer, E. T., A cosmic jet swinging our way, 2018, Nature Astronomy, 2, 32–33, @2018 [Линк](#) **2.000**
- Park, J., Kam, M., Trippe, S., Kang, S., Byun, D.-Y., Kim, D.-W., Algaba, J.-C., Lee, S.-S., Zhao, G.-Y., Kino, M., Shin, N., Hada, K., Lee, T., Oh, J., Hodgson, J. A., Sohn, B. W., Revealing the Nature of Blazar Radio Cores through Multi-Frequency Polarization Observations with the Korean VLBI Network, 2018, ApJ, 860, art. id. 112, @2018 [Линк](#) **2.000**
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- Sandrinelli, A., Covino, S., Treves, A., Hologado, A. M., Sesana, A., Lindfors, E., Fallah Ramazani, V., Quasi-periodicities of BL Lac Objects and Their Origin, 2018, A&A, 615, A118, @2018 [Линк](#) **2.000**
- Yan, D., Zhou, J., Zhang, P., Zhu, Q., Wang, J., Testing relativistic boost as the cause of gamma-ray quasi-periodic oscillation in blazar, 2018, ApJ, 867, art. id. 53, @2018 [Линк](#) **2.000**
- Zacharias, M., Blazar variability - expect the unexpected, 2018, High Energy Astrophysics in Southern Africa, PoS, 338, art. id. 33, @2018 [Линк](#) **0.000**
- Boccardi, B., Migliori, G., Grandi, P., Torresi, E., Mertens, F., Karamanavis, V., Angioni, R., Vignali, C., The TeV-emitting radio galaxy 3C 264. VLBI kinematics and SED modeling, 2019, A&A, 627, A89, @2019 [Линк](#) **2.000**
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- Chevalier, J., Sanchez, D. A., Serpico, P. D., Lenain, J.-P., Maurin, G., Variability studies and modeling of the blazar PKS 2155-304 in the light of a decade of multi-wavelength observations, 2019, MNRAS, Volume 484, Issue 1, p.749-759, @2019 [Линк](#) **2.000**
- Covino, S., Sandrinelli, A., Treves, A., Gamma-ray quasi-periodicities of blazars. A cautious approach, 2019, MNRAS, 482, 1270, @2019 [Линк](#) **2.000**
- Ding, N., Gu, Q. S., Geng, X. F., Xiong, D.-R., Xue, R., Wang, X. Y., Guo, X. T., Exploring the origin of multiwavelength activities of high-redshift FSRQ PKS 1502+106 during 2014-2018, 2019, ApJ, 881, art. id. 125, @2019 [Линк](#) **2.000**
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Astrophysical Events with Precessing Jets, 2019, ApJ, 878, art. id. 140, [@2019 Линк](#)
- Perlman, E. S., Birkinshaw, M., Kadler, M., Komissarov, S., Lister, M., Meier, D., Meyer, **0.000**
E., Nakamura, M., Nyland, K., O'Dea, C., Worrall, D., Zdziarski, A., Relativistic Jets in
the Accretion & Collimation Zone: New Challenges Enabled by New Instruments, 2019,
Astro2020, Bulletin of the AAS, Volume 51, Number 3, [@2019 Линк](#)
- Sarkar, A.; Chitnis, V. R.; Gupta, A. C.; Gaur, H.; Patel, S. R.; Wiita, P. J.; Volvach, A. **2.000**
E.; Tomikoski, M.; Chamani, W.; Enestam, S.; Lähteenmäki, A.; Tammi, J.; Vera, R. J.
C.; Volvach, L. N., "Long-term Variability and Correlation Study of the Blazar 3C 454.3
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- Shao, X., Jiang, Y., Chen, X., Curvature-induced Polarization and Spectral Index **2.000**
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Wierzcholska, A., CTA 102 – year over year receiving you, in "High Energy Phenomena
in Relativistic Outflows VII - HEPRO VII", 9-12 July 2019, Barcelona, Spain, 2019,
Proceedings of Science, 354, Art. number 025, [@2019 Линк](#)
- Zacharias, M., Böttcher, M., Jankowsky, F., Lenain, J.-P., Wagner, S. J., Wierzcholska, **2.000**
A., The Long-Lasting Activity in the Flat Spectrum Radio Quasar (FSRQ) CTA~102,
2019, Galaxies, 7, 34, [@2019 Линк](#)
- Zacharias, M., Böttcher, M., Jankowsky, F., Lenain, J.-P., Wagner, S., Wierzcholska, A., **2.000**
The extended flare in CTA 102 in 2016 and 2017 within a hadronic model through cloud
ablation by the relativistic jet, 2019, ApJ, 871, art. id. 19, [@2019 Линк](#)
- Aalto, S., Falstad, N., Muller, S., Wada, K., Gallagher, J. S., König, S., Sakamoto, K., **2.000**
Vlemmings, W., Ceccobello, C., Dasyra, K., Combes, F., Garcia-Burillo, S., Oya, Y.,
Martín, S., van der Werf, P., Evans, A. S., Kotilainen, J., "ALMA resolves the remarkable
molecular jet and rotating wind in the extremely radio-quiet galaxy NGC 1377", 2020,
A&A, 640, A104, [@2020 Линк](#)
- Bhatta, G., Páris, R., Stuchlík, Z., "Deterministic Aspect of the γ -ray Variability in **2.000**
Blazars", 2020, ApJ, 905, art. id. 160, [@2020 Линк](#)
- Bychkova, V. S., Kardashev, N. S., Maslennikov, K. L., Plokhotnichenko, V. L., Beskin, **2.000**
G. M., Karpov, S. V., Rapid Polarized Emission Variability of Blazar S5 0716+714 in
Optical Range, 2020, Astronomical Reports, 64, 533-539, [@2020 Линк](#)
- Chavushyan, V., Patiño-Álvarez, V. M., Amaya-Almazán, R. A., Carrasco, L., Flare-like **2.000**
Variability of the Mg II $\lambda\lambda 2798$ Å Emission Line and UV Fe II band in the Blazar CTA
102, 2020, ApJ, 891, art. id. 68, [@2020 Линк](#)
- Covino, S., Landoni, M., Sandrinelli, A., Treves, A., Looking at Blazar Light Curve **2.000**
Periodicities with Gaussian Processes, 2020, ApJ, 895, art. id. 122, [@2020 Линк](#)
- Geng, X., Zeng, W., Rani, B., Britto, R. J., Zhang, G., Wen, T., Hu, W., Larsson, S., **2.000**
Thompson, D. J., Yang, Sh., Cao, G., Dai, B., "Exploring High-energy Emission from the

- BL Lacertae Object S5 0716+714 with the Fermi Large Area Telescope", 2020, ApJ, 904, art. id. 67, @2020 [Линк](#)
- Jiang, Y., Hu, S.-M., Chen, X., Shao, X., Huo, Q.-H., Locations of optical and γ -ray emitting regions and variation phenomena of PMN J2345-1555, 2020, MNRAS, 493, 3757–3769, @2020 [Линк](#) **2.000**
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- Shukla, A., Mannheim, K., "Gamma-ray flares from relativistic magnetic reconnection in the jet of the quasar 3C 279", 2020, Nature Commun, 11, art. id. 4176, @2020 [Линк](#) **2.000**
- Singh, K. K., Meintjes, P. J., "Characterization of variability in blazar light curves", 2020, Astronomische Nachrichten, 341, 713-725, @2020 [Линк](#) **2.000**
- Wang, Y.-F., Jiang, Y.-G., A comprehensive study on the variation phenomena of AO 0235+164, 2020, ApJ, 902, art. id. 41, @2020 [Линк](#) **2.000**
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- Yang, X., Yi, T., Zhang, Y., Li, H., Mao, L., Zhang, H., Ma, L., The γ -Ray and Optical Variability Analysis of the BL Lac Object 3FGL J0449.4–4350, 2020, PASP, 132, art. id. 044101, @2020 [Линк](#) **2.000**
- Acharya, S., Borse, N. S., Vaidya, B., "Numerical Analysis of Long-term Variability of AGN Jets through RMHD Simulations", 2021, MNRAS, 506, 1862–1878, @2021 [Линк](#) **2.000**
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