7. Списъци на научните трудове, изобретенията, цитатите и т.н., включени е минималните национални изисквания по групи показатели, съгласно Правилника за прилагане на ЗРАСРБ, ПП ЗРАСРБ-ИФТТ

Име: Георги Петков Янков

Длъжност: главен асистент

Направление: Лазерна Физика и Физика на Атомите, Молекулите и Плазмата

Група от показатели	Показател	Брой точки
А	**1. Дисертационен труд за присъждане на образователна и научна степен „доктор“: “Импулсни лазери на Cu атоми и йони на Sr, Hg, Cd, Zn, Cu и Ag, възбуждани с електрическа схема с взаимодействащи контури“**	**50**
Г7	**7. Научна публикация в издания, които са реферирани и индексирани в световноизвестни бази данни с научна информация (Web of Science и Scopus), извън хабилитационния труд***	**25 за публ. в Q1 20 за публ. в Q2 15 за публ. в Q3 12 за публ. в Q4 10 за публ. в издание със SJR без IF**
Г7	1. **G. Yankov**, L. Dimowa, N. Petrova, M. Tarassov, K. Dimitrov, T. Petrov, B. L. Shivachev, “Synthesis, structural and non-linear optical properties of TeO_2–GeO_2–Li_2O glasses“, Optical Materials, vol. 35, No. 2, pp. 248-251, 2012, **IF = 1.918**, **Q2** в **Web of Science** и **Q1** в **Scopus**	**25**
Г7	2. **G. Yankov**, I. Stefanov, K. Dimitrov, I. Piroeva, L. Dimowa, M. Tarassov, B. Shivachev, H. Yoneda, T. Petrov, “Measurement of nonlinear refractive index and multiphoton absorption by the subpicosecond z-scan method of tellurite multicomponent glassy matrixes having nonlinear susceptibility“, Physica Scripta, vol. T157, art. No. 014026, 2013, **IF = 1.296**, **Q3** в **Web of Science** и **Q3** в **Scopus**	**15**
Г7	3. B. Shivachev, K. Kossev, L. Dimowa, **G. Yankov**, T. Petrov, R. Nikolova, N. Petrova, “Synthesis, growth, structural, thermal, optical properties of new metal-organic crystals: Methyltriphenylphosphonium iodide thiourea and methyltriphenylphosphonium iodide chloroform hemisolvate“, Journal of Crystal Growth, vol. 376, pp. 41-46, 2013, **IF = 1.693**, **Q2** в **Web of Science** и **Q1** в **Scopus**	**25**

Г7	**Общ брой точки за образователна и научна степен „доктор“ и главен асистент**	**65**
В4	**4. Хабилитационен труд – научни публикации в издания, които са реферирани и индексирани в световноизвестни бази данни с научна информация (Web of Science и Scopus)***	**25 за публ. в Q1 20 за публ. в Q2 15 за публ. в Q3 12 за публ. в Q4 10 за публ. в издание със SJR без IF**
В4	1. E. Iordanova, **G. Yankov**, S. Karatodorov, L. Kovachev, “Exceeding the boundaries of the spatio-temporal nonlinear optics and filamentation for ultrashort laser pulses”, ACS Omega, vol. 8, No. 3, pp. 3501-3508 2023, **IF = 4.132** за 2021 г., **Q2** в **Web of Science** и **Q1** в **Scopus**	25
В4	2. **G. Yankov**, E. Iordanova, L. Kovachev, “*Radiation forces and compression of neutral particles by optical lens*”, Optik, vol. 273, art. No. 170452, **2023**, **IF = 2.840** за 2021 г., **Q2** в **Web of Science** и **Q2** в **Scopus**	20
В4	3. E. Iordanova, **G. Yankov**, S. Karatodorov, L. Kovachev, “Diffraction-free femtosecond”, Optik, vol. 267, art. No. 16968, 2022, **IF = 2.840** за 2021 г., **Q2** в **Web of Science** и **Q2** в **Scopus**	20
В4	4. N. Nedyalkov, N. Stankova, M. Koleva, R. Nikov, L. Alexandrov, R. Iordanova, E. Iordanova, **G. Yankov**, “Laser processing of noble metal doped glasses by femto- and nanosecond laser pulses“, Applied Surface Science, vol. 475, pp. 479-486, 2019, **IF = 6.182**, **Q1** в **Web of Science** и **Q1** в **Scopus**	25
В4	5. **G. Yankov**, S. Karatodorov, V. Mihailov, V. Tankova, N. Nedyalkov, E. Iordanova, “Damage threshold in ablation regime induced by femtosecond laser irradiation on transparent media”, Comptes Rendus de l’Académie Bulgare des Sciences, vol. 76, No. 3, pp. 343–351, 2023, **IF = 0.326** за 2021 г., **Q3** в **Scopus**	15
В4	6. **G. Yankov**, E. Iordanova, N. Nedyalkov, M. Zamfirescu, “Preliminary results on non-linear effects in Au-ion-doped glass materials irradiated by femtosecond laser pulses”, Journal of Physics: Conference Series, vol. 1492, No. 1, art. No. 012060, 2020, **Q4** в **Scopus**	12
В4	**Общ брой точки за хабилитационен труд**	**117**

Г7	**7. Научна публикация в издания, които са реферирани и индексирани в световноизвестни бази данни с научна информация (Web of Science и Scopus), извън хабилитационния труд***	**25 за публ. в Q1 20 за публ. в Q2 15 за публ. в Q3 12 за публ. в Q4 10 за публ. в издание със SJR без IF**
Г7	1. **G. Yankov**, N. Stankova, E. Iordanova, "The effect of femtosecond laser pulse irradiation on the properties of advanced medical grade PDMS polymer", Comptes Rendus de l'Académie Bulgare des Sciences, vol. 76, No. 2, pp. 175–183, 2023. **IF = 0.326** за 2021 г., **Q3** в **Scopus**	15
Г7	2. E. Iordanova, **G. Yankov**, N. Stankova, N. Nedyalkov, "Modification and activation of the surface of medical-grade PDMS after irradiation by ultrashort laser pulses", Journal of Physics: Conference Series, vol. 2240, No. 1, art. No. 012051, 2022, SJR 0.210	10
Г7	3. N. Stankova, A. Nikolov, E. Iordanova, **G. Yankov**, N. Nedyalkov, P. Atanasov, D. Tatchev, E. Valova, K. Kolev, S. Armyanov, D. Karashanova, N. Fukata, "New Approach toward Laser-Assisted Modification of Biocompatible Polymers Relevant to Neural Interfacing Technologies", Polymers, vol. 13, No. 17, art. No. 3004, 2021, **IF = 4.967**, **Q1** в **Web of Science** и **Q1** в **Scopus**	25
Г7	4. E Iordanova, G Yankov, A Daskalova, A Dikovska, L Angelova, D Aceti, E Filipov, G Stanev, B Calin, M Zamfirescu, "Ultra-short laser modification of chitosan/silver nanoparticles (AgNPs) thin films for potential antimicrobial applications", Journal of Physics: Conference Series Materials Science and Engineering 1056 012002 (2021) SJR (2019): 0.198	10
Г7	5. A. Daskalova, I. Bliznakova, E. Iordanova, **G. Yankov**, M. Grozeva, B. Ostrowska, "Preliminary study of surface modification of 3D Poly (ε - caprolactone) scaffolds by ultrashort laser irradiation", Journal of Physics: Conference Series, vol. 682, No. 1, art. No. 012006, 2016, **Q4**	12
Г7	6. N. Nedyalkov, N. Stankova, M. Koleva, R. Nikov, M. Grozeva, E. Iordanova, **G. Yankov**, L. Aleksandrov, R. Iordanova, D. Karashanova, "OPTICAL PROPERTIES MODIFICATION OF GOLD DOPED GLASS INDUCED BY NANOSECOND LASER RADIATION AND ANNEALING", Optical Materials, vol. 75, pp. 646-653, 2018, **IF = 2.687**, **Q2** в **Web of Science** и **Q1** в **Scopus**	25

Г7	7. N. Nedyalkov, N. Stankova, M. Koleva, R. Nikov, P. Atanasov, M. Grozeva, E. Iordanova, **G. Yankov**, L. Aleksandrov, R. Iordanova, D. Karashanova, "Optical properties modification induced by laser radiation in noble metal doped glasses", Journal of Physics: Conference Series, vol. 992, No. 1, art. No. 012047, 2018, **Q4** в **Scopus**	12
Г7	8. N. Nedyalkov, M. Koleva, R. Nikov, N. Stankova, E. Iordanova, **G. Yankov**, L. Alexandrov, R. Iordanova, "Tuning optical properties of noble metal nanoparticle-composed glasses by laser radiation", Applied Surface Science, vol. 463, pp. 968-975, 2019, **IF = 6.182**, **Q1** в **Web of Science** и **Q1** в **Scopus**	25
Г7	8. Ro. Nikov, N. Nedyalkov, M. Koleva, N. Stankova, E. Iordanova, **G. Yankov**, L. Aleksandrov, R. Iordanova, "Femtosecond laser modification of the optical properties of glass containing noble-metal nanoparticles", Journal of Physics: Conference Series, vol. 1492, No.1, art. No. 012058, 2020, **Q4** в **Scopus**	12
Г7	10. L. Dimowa, I. Piroeva, S. Atanasova-Vladimirova, N. Petrova, V. Ganev, R. Titorenkova, **G. Yankov**, T. Petrov, B. Shivachev, "Synthesis, structural, thermal and optical properties of TeO_2–Bi_2O_3–GeO_2–Li_2O glasses", Optical Materials, vol. 60, pp. 577-583, 2016, **IF = 2.238 (2.183)**, **Q2** в **Web of Science** и **Q1** в **Scopus**	25
Г7	11. I. K. Kostadinov, K. A. Temelkov, L. T. Popova, S. I. Slaveeva, **G. P. Yankov**, "Diffraction-limited high-power master oscillator – power amplifier system oscillating in visible spectral range on copper atomic transitions for precise material micromachining", Journal of Physics: Conference Series, vol. 2487, No. 1, 012008, 2023. **SJR 0.210**.	10
Г7	12. I. K. Kostadinov, K. A. Temelkov, D. N. Astadjov, S. I. Slaveeva, **G. P. Yankov**, N. V. Sabotinov, "High-power copper bromide vapor laser", Optics Communications, vol. 501, art. No. 127363, 2021 **IF = 2.335**, **Q3** в **Web of Science** и **Q2** в **Scopus**	20
Г7	13. K. Kostadinov, **G. P. Yankov**, L. T. Popova, S. I. Slaveeva, Yu. I. Fedchenko, K. A. Temelkov, "High-power high-beam-quality sealed-off master oscillator – power amplifier system oscillating in the middle infrared spectral range on strontium atomic transitions", Journal of Physics: Conference Series, vol. 1859, No. 1, art. No. 012054, 2021, **SJR 0.210**	10
Г7	14. K. Kostadinov, D. N. Astadjov, **G. P. Yankov**, L. T. Popova, S. I. Slaveeva, Yu. I. Fedchenko, K. A. Temelkov, "High-beam-quality sealed-off master oscillator–power amplifier system	10

	oscillating in visible spectral range on copper atomic transitions for micromachining in science and technology", Journal of Physics: Conference Series, vol. 1859. No. 1, art. No. 012056, 2021, **SJR 0.210**	
Г7	15. I. K. Kostadinov, K. A. Temelkov, **G. P. Yankov**, B. L. Ivanov, "High-beam-quality sealed-off laser system oscillating in middle infrared spectral range on strontium atomic transitions", Optical and Quantum Electronics, vol. 52, art. No. 94 (8pp), 2020, **IF = 1.842**, **Q2** в **Web of Science** и **Q2** в **Scopus**	20
Г7	**Общ брой точки Г7**	**241**
Г9	**9. Изобретение, патент или полезен модел, за което е издаден защитен документ по надлежния ред**	**25**
Г9	1. I. K. Kostadinov, D. N. Astadjov, K. A. Temelkov, **G. P. Yankov**, "Gas-discharge laser", Published Applications for Inventions, № 67473 B1 from 15.11.2022 (reg. № 113173 from 23.06.2020).	25
Г9	**Общ брой точки Г9**	**25**
Г	**Общ брой точки по показател Г**	**266**
Д	**11.** Цитирания в научни издания, монографии, колективни томове и патенти, реферирани и индексирани в световноизвестни бази данни с научна информация (Web of Science и Scopus)	
	L. Dimowa, I. Piroeva, S. Atanasova-Vladimirova, N. Petrova, V. Ganev, R. Titorenkova, **G. Yankov**, T. Petrov, B. Shivachev, "Synthesis, structural, thermal and optical properties of TeO_2–Bi_2O_3–GeO_2–Li_2O glasses", Optical Materials, vol. 60, pp. 577-583, 2016, **IF = 2.238 (2.183)**, **Q2** в **Web of Science** и **Q1** в **Scopus** **Цитирания:** **1.**Blessy Kamalam, E., Manikandan, N. Review—Recent Advances in Bismuth Tellurite Glasses for Photonic and Radiation Shielding Applications (2023) ECS Journal of Solid State Science and Technology, 12 (7), art. no. 076007, . DOI: 10.1149/2162-8777/ace6d8 **2**.Brand, L., Anjos, V., Bell, M.J.V. Optical and structural analysis of tellurite matrices with different modifiers (2023) Optical Materials, 138, art. no. 113470, . DOI: 10.1016/j.optmat.2023.113470	**9x2=18**

	3.Siripuram, R., Satya Gopal Rao, P., Sripada, S. Comparative studies of structural and optical properties of Nb2O5–Sb2O3–TeO2 glass and glass-ceramics (2022) Physics and Chemistry of Glasses: European Journal of Glass Science and Technology Part B, 63 (3), pp. 65-85. DOI: 10.13036/17533562.63.3.02 **4.**Zhou, D., Jiang, Q., Chen, C., Zeng, H., Chen, D. Spectroscopic properties of Er3+-doped lithium-modified bismuth tellurite glasses for broadband near-infrared emission (2022) Journal of Non-Crystalline Solids, 583, art. no. 121468 DOI: 10.1016/j.jnoncrysol.2022.121468 **5**.Boukhris, I., Kebaili, I., Sayyed, M.I., Askin, A., Rammah, Y.S. Linear, nonlinear optical and photon attenuation properties of La3+ doped tellurite glasses (2020) Optical Materials, 108, art. no. 110196 DOI: 10.1016/j.optmat.2020.110196 **6.**He, J., Zhan, H., Lin, A. Structural property of bismuth-doped tellurite glasses for nonlinear and Raman fiber applications (2019) Optical Materials, 96, art. no. 109280 DOI: 10.1016/j.optmat.2019.109280 **7.**Bachvarova-Nedelcheva, A., Iordanova, R., Ganev, S., Dimitriev, Y. Glass formation and structural studies of glasses in the TeO2 – ZnO – Bi2O3 – Nb2O5 system (2019) Journal of Non-Crystalline Solids, 503-504, pp. 224-231. DOI: 10.1016/j.jnoncrysol.2018.09.048 **8**.Siripuram, R., Rao, P.S.G., Sripada, S. Influence of nano crystalline behavior of Nb2O5- Sb2O3- TeO2glass ceramics on structural and thermal studies (2019) Materials Today: Proceedings, 46, pp. 6344-6357. DOI: 10.1016/j.matpr.2020.05.818 **9.**Feng, C.-R., Jian, J., Chen, X.-H., Du, Q., Wang, L. Investigations on the Local Structures and the Spin Hamiltonian Parameters for Cu2+ in (90-x)TeO2-10GeO2-xWO3 Glasses (2017) Zeitschrift fur Naturforschung - Section A Journal of Physical Sciences, 73 (1), pp. 5-11. DOI: 10.1515/zna-2017-0308	
	N. Nedyalkov, M. Koleva, R. Nikov, N. Stankova, E. Iordanova, **G. Yankov**, L. Alexandrov, R. Iordanova, “Tuning optical properties of noble metal nanoparticle-composed glasses by laser radiation”,	**9x2=18**

	Applied Surface Science, vol. 463, pp. 968-975, 2019, **IF = 6.182**, **Q1** в **Web of Science** и **Q1** в **Scopus** **Цитирания:** **1.**Liu, J.-J., Jiang, Z.-W., Hsu, S.-W. Investigation of the Performance of Heterogeneous MOF-Silver Nanocube Nanocomposites as CO2 Reduction Photocatalysts by In Situ Raman Spectroscopy (2023) ACS Applied Materials and Interfaces, 15 (5), pp. 6716-6725 DOI: 10.1021/acsami.2c18510 **2.**Shaheen, T.I. Nanotechnology for modern textiles: highlights on smart applications (2021) Journal of the Textile Institute DOI: 10.1080/00405000.2021.1962625 **3.**Khan, M., Mishra, S., Ratna, D., Sonawane, S., Shimpi, N.G. Investigation of thermal and mechanical properties of styrene–butadiene rubber nanocomposites filled with SiO2–polystyrene core–shell nanoparticles (2020) Journal of Composite Materials, 54 (14), pp. 1785-1795 **4.**Javid, A., Kumar, M., Yoon, S., Lee, J.H., Han, J.G. Synergistic enhancement of antibacterial activity of Cu:C nanocomposites through plasma induced microstructural engineering (2020) Applied Surface Science, 500, art. no. 143996, . **5.**Chenthamara, D., Subramaniam, S., Ramakrishnan, S.G., Krishnaswamy, S., Essa, M.M., Lin, F.-H., Qoronfleh, M.W. Therapeutic efficacy of nanoparticles and routes of administration (2019) Biomaterials Research, 23 (1), art. no. 20 DOI: 10.1186/s40824-019-0166-x **6.**Chauhan, P., Chaudhary, S. Role of surface modification on selenium nanoparticles: Enumerating the optical, thermal and structural properties (2019) Optical Materials, 97, art. no. 109380 DOI: 10.1016/j.optmat.2019.109380 **7.**Alluhaybi, H.A., Ghoshal, S.K., Alsobhi, B.O., Wan Shamsuri, W.N. Visible photoluminescence from gold nanoparticles: A basic insight (2019) Optik, 192, art. no. 162936. DOI: 10.1016/j.ijleo.2019.162936 **8.**Saleh, T.A., Fadillah, G., Saputra, O.A.	

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	N. Nedyalkov, N. Stankova, M. Koleva, R. Nikov, L. Alexandrov, R. Iordanova, E. Iordanova, **G. Yankov**, "Laser processing of noble metal doped glasses by femto- and nanosecond laser pulses", Applied Surface Science, vol. 475, pp. 479-486, 2019, **IF = 6.182**, **Q1** в **Web of Science** и **Q1** в **Scopus** **Цитирания:** **1.**Fukushima, S., Hidai, H., Itoh, S., Matsusaka, S. precipitation of gold nanoparticles via gold sphere movement driven by laser (2022) Nanotechnology, 33 (45), art. no. 455202, . DOI: 10.1088/1361-6528/ac8556 **2.**Xu, L., Zhang, S., Huang, L., Yang, Y., Tao, H., Zhu, J., Yang, C., Li, S., Jin, R., Dong, X. A novel CoxNi1-xP/fs-Si self-supporting electrodes manufactured via femtosecond laser for highly efficient hydrogen evolution reaction (2022) Surfaces and Interfaces, 32, art. no. 102173 DOI: 10.1016/j.surfin.2022.102173 **3.**Kawamura, H., Okuda, R., Matsusaka, S., Nomoto, K., Kodaka, H., Hidai, H., Chiba, A., Morita, N. Fine hole drilling of alkali-containing silicate glass substrate using preferential penetration of etchants around silver precipitates (2022) Precision Engineering, 76, pp. 141-148. DOI: 10.1016/j.precisioneng.2022.03.017 **4.**Zhao, H., Cun, Y., Bai, X., Xiao, D., Qiu, J., Song, Z., Liao, J., Yang, Z. Entirely Reversible Photochromic Glass with High Coloration and Luminescence Contrast for 3D Optical Storage (2022) ACS Energy Letters, 7, pp. 2060-2069. DOI: 10.1021/acsenergylett.2c00574 **5.**Orazi, L., Romoli, L., Schmidt, M., Li, L. Ultrafast laser manufacturing: from physics to industrial applications (2021) CIRP Annals, 70 (2), pp. 543-566. Cited 31 times.	**10x2=20**

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	DOI: 10.1088/1361-6528/ac8556 **2.**Schlotthauer, T., Nolan, D., Middendorf, P. Influence of short carbon and glass fibers on the curing behavior and accuracy of photopolymers used in stereolithography (2021) Additive Manufacturing, 42, art. no. 102005 **3.**Babich, E., Kaasik, V., Reduto, I., Scherbak, S., Lipovskii, A. Kinetics of Nanoparticles Formation Under UV, VIS and IR Nanosecond Laser Irradiation of a Silver-Ions-Enriched Glass (2021) Journal of Laser Micro Nanoengineering, 16 (2), pp. 88-93 DOI: 10.2961/jlmn.2021.02.2003 **4.**Moriceau, J., Houizot, P., Lorenc, M., Rouxel, T. Healing of cracks by green laser irradiation in a nanogold particles glass matrix composite (2019) Journal of Non-Crystalline Solids, 503-504, pp. 115-119. DOI: 10.1016/j.jnoncrysol.2018.09.036 **5.**Fu, X., Li, Y., Li, X., Tian, R., Yin, L., Zhang, J. Laser bonding of glass and glass with constant temperature output (2018) Proceedings - 2018 19th International Conference on Electronic Packaging Technology, ICEPT 2018, art. no. 8480752, pp. 1084-1088. DOI: 10.1109/ICEPT.2018.8480752 **6.**Aparimita, A., Sripan, C., Ganesan, R., Jena, S., Naik, R. Influence of thermal annealing on optical and structural properties change in Bi-doped Ge30Se70 thin films (2018) Phase Transitions, 91 (8), pp. 872-886. DOI: 10.1080/01411594.2018.1506882	
	Общ брой точки по показател Д	**68**