

## Списък на публикациите по проекта

### Статии с импакт-фактор и импакт-ранг

1. **A1** E. Stoykova, G. Mateev, D. Nazarova, N. Berberova, B. Ivanov, "Pointwise intensity-based dynamic speckle analysis with binary patterns", **Proc. SPIE** 10329, 103293Y (26 June 2017); doi: 10.1117/12.2270153; <http://dx.doi.org/10.1117/12.2270153>, **SJR 0.234**
2. **A2** E. Stoykova, B. Blagoeva, D. Nazarova, L. Nedelchev, T. Nikova, N. Berberova, Y. Kim, H. Kang, "Evaluation of temporal scales of migration of cosmetic ingredients into the human skin by two-dimensional dynamic speckle analysis", **Opt. Quant. Electron.** 50: 191. (2018) <https://doi.org/10.1007/s11082-018-1440-1>, **IF (impact-factor) 1.624**
3. **A3** M. Nenchev, E. Stoykova, M. Deneva, Composite wavelength tunable wedged interference structures with increased free spectral range, **Opt Quant Electron** 50: 433 (1-11), (2018) <https://doi.org/10.1007/s11082-018-1668-9>, **IF (impact-factor) 1.624**
4. **A4** E. Stoykova, H. Kang, Y. Kim, D. Nazarova, L. Nedelchev, B. Ivanov, N. Berberova, G. Mateev, "Evaluation of activity from binary patterns in dynamic speckle analysis", **Optics and Lasers in Engineering**, 111, 50-57, (2018). **IF 3.388**
5. **A5** E. Stoykova, M. Nenchev, M. Deneva, "Increase of the free spectral range by composing a structure from wavelength tunable wedged interferometers," **Proc. SPIE** 10680, , 106801K (9 May 2018); doi: 10.1117/12.2307326, **SJR 0.238**
6. **A6** E. Stoykova, "Preprocessing of raw data for quality enhancement of the pointwise dynamic speckle analysis," **Proc. SPIE** 10834, Speckle 2018: 108341O (7 September 2018); <https://doi.org/10.1117/12.2307326>, **SJR 0.238**
7. **A7** R. Harizanova, L. Vladislavova, C. Bocker, G. Avdeev, C. Rüssel, „Sr-Substituted Barium Titanate Glass Ceramics from Oxide Glasses As Potential Material for Sensor Preparation”. In: Petkov P., Tsiulyanu D., Popov C., Kulisch W. (eds) *Advanced Nanotechnologies for Detection and Defence against CBRN Agents*. NATO Science for Peace and Security Series B: Physics and Biophysics. Chapter 34, 349-358q Springer, Dordrecht (2018), Series B: Physics and Biophysics, [https://doi.org/10.1007/978-94-024-1298-7\\_34](https://doi.org/10.1007/978-94-024-1298-7_34), **SJR 0.113**
8. **A8** E. Stoykova, B. Blagoeva, T. Nikova, D. Nazarova, and L. Nedelchev "Monitoring of a drying process in polymer water and methanol solutions by dynamic speckle metrology", **Proc. SPIE** 11047, 110470W (29 January 2019); <https://doi.org/10.1117/12.2516355>, **SJR 0.215**
9. **A9** R. Harizanova, V. Gaydarov, G. Zamfirova, E. Stoykova, D. Nazarova, B. Blagoeva, L. Nedelchev, "Probing of the mechanical properties and monitoring of the drying process of azopolymer thin films for optical recording," **Thin Solid Films**, vol. 687, 2019, 137441, ISSN 0040-6090, <https://doi.org/10.1016/j.tsf.2019.137441>; Q2, **IF 2.03**
10. **A10** E. Stoykova, B. Blagoeva, L. Nedelchev, and D. Nazarova "Temperature dependence of the drying process in polymer solutions observed by dynamic speckle detection", **Proc. SPIE** 11207, 112071S (3 October 2019); <https://doi.org/10.1117/12.2527432>, **SJR 0.215**
11. **A11** E. Stoykova, M. Deneva, and M. Nenchev "Analysis of Fizeau wedge with a non-air gap by plane wave expansion", **Proc. SPIE** 11207, 112071V (3 October 2019); <https://doi.org/10.1117/12.2527464> **SJR 0.215**
12. **A12** E. Stoykova, G. Mateev, B. Blagoeva, B. Ivanov, D. Nazarova, and L. Nedelchev "Dynamic speckle analysis with two-wavelength acquisition", **Proc. SPIE** 11338, AOPC 2019: 113383M (18 December 2019); <https://doi.org/10.1117/12.2548141>, **SJR 0.215**
13. **A13** E. Sahin, E. Stoykova, J. Mäkinen, J., A. Gotchev, "Computer-Generated Holograms for 3D

Imaging: A Survey.” *ACM Computing Surveys (CSUR)*, 53(2), 1-35 (2020); <https://doi.org/10.1145/3378444>, **IF 7.99**

14. **A14** H. Zhou, E. Stoykova, M. Hussain, P. Banerjee, “Performance analysis of phase retrieval using transport of intensity with digital holography”, *Appl. Opt.* 60 (4), A73-A83 (2021), <https://doi.org/10.1364/AO.404390> (online); **IF 1.961**

#### **Глава от книга**

15. **B1** E. Stoykova, H. Kang, Y. Kim, J. Park, S. Hong and J. Hong. “3D Capture and 3D Contents Generation for Holographic Imaging,” in *Holographic Materials and Optical Systems*, Dr. Izabela Naydenova (Ed.), (InTech 2017), DOI: 10.5772/65904.

#### **Статии без импакт-фактор и импакт-ранг**

16. **C1** M. Nenchev, M. Deneva, E. Stoykova, “Composite wavelength tunable interferential wedge structures in optical communications and spectroscopy”, *International Journal “Information Theories and Applications”*, Vol. 25, Number 3, 268 – 279 (2018)
17. **C2** R. Harizanova, L. Vladislavova, G. Avdeev, C. Bocker, I. Gugov, C. Rüssel, “Electron microscopy investigation of the microstructure and elemental composition of barium titanate precipitated in an oxide glass-ceramics”, *Journal of Chemical Technology and Metallurgy* 53 (6), 1061-1066 (2018)

#### **Доклади на международни конференции в пълен текст**

18. **D1** H. Kang, E. Stoykova, and J. Park, "Generation of Phase Data for Holographic Stereogram Printing on a Photoresist," in *Digital Holography and Three-Dimensional Imaging*, OSA Technical Digest (online) (Optical Society of America, 2017), paper M4B.3. <https://doi.org/10.1364/DH.2017.M4B.3>
19. **D2** E. Stoykova, N. Berberova, D. Nazarova, and B. Ivanov, "SLM-based Testing of Algorithms in Dynamic Speckle Metrology," in *Digital Holography and Three-Dimensional Imaging*, OSA Technical Digest (online) (Optical Society of America, 2017), paper Th1A.4. <https://doi.org/10.1364/DH.2017.Th1A.4>
20. **D3** E. Stoykova, M. Nenchev, M. Deneva, and Y. Kim, "Beam Shaping by a Stack of Fizeau Wedges for Metrology," in *Imaging and Applied Optics 2018 (3D, AO, AIO, COSI, DH, IS, LACSEA, LS&C, MATH, pcAOP)*, OSA Technical Digest (Optical Society of America, 2018), paper JW4A.12. <https://doi.org/10.1364/3D.2018.JW4A.12>
21. **D4** H. Kang, E. Stoykova, Y. Kim, S. Hong, J. Park, and J. Hong, “3D color imaging by holographic printing, in International symposium on Imaging”, Sensing, and Optical Memory 2017, October 22 - 25, 2017, Kunibiki Messe, Matsue, Shimane, Japan, <http://www.isom.jp>; paper Mo-E-02 (invited)
22. **D5** E. Stoykova, Y. Kim, and J. Park, "Compressed dynamic speckle sensing," in *Imaging and Applied Optics Congress*, The Optical Society (Optical Society of America, 2020), paper HTh4H.6; <https://doi.org/10.1364/DH.2020.HTh4H.6>

23. **D6** E. Stoykova, H. Zhou, and P. Banerjee, "Phase Retrieval by Transport of Intensity in Inline Digital Holography," in Imaging and Applied Optics Congress, The Optical Society (Optical Society of America, 2020), paper HF2D.3; <https://doi.org/10.1364/DH.2020.HF2D.3>
24. **D7** Е. Стойкова, Д. Назарова, Б. Иванов. Мониторинг процессов методом динамического лазерного спекл-анализа, VIII МЕЖДУНАРОДНАЯ КОНФЕРЕНЦИЯ ПО ФОТОНИКЕ И ИНФОРМАЦИОННОЙ ОПТИКЕ Сборник научных трудов. 627-628, 2019, Издательство: Национальный исследовательский ядерный университет "МИФИ" (Москва), <https://www.elibrary.ru/item.asp?id=37316839>