

Анекс към отчета на ИОМТ за 2023

А) Публикация, приета през 2021 г., публикувана през 2022 г. (не е включена в отчета за 2022 г.):

Blagoeva, B., Nedelchev, L., Nazarova, D., Stoykova, E., Park, J., Reversible supramolecular chiral structures induced in azopolymers by elliptically polarized light: Influence of the irradiation wavelength and intensity. Applied Optics, 61, 5, OPTICA publishing group (formerly OSA), 2021, ISSN:1559-128X, DOI:https://doi.org/10.1364/AO.444159, B147-B155. SJR (Scopus):0.515, JCR-IF (Web of Science):1.9 **Q2**, (Scopus) [Линк](#)

Б) Цитати, които не са включени в отчета за 2022 г.:

Всички цитати (първа част - на научни публикации)

- **Звено: (ИОМТ) Институт по оптически материали и технологии „Академик Йордан Малиновски”**
- **Година:** 2022 ÷ 2022
- **Условие:** Датата да бъде по-голяма от 01.02.2023
- **Тип записи:** Записи, които влизат в отчета на звеното

Брой цитирани публикации: 26	Брой цитиращи източници: 38	Коригиран брой: 38.000
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1984

1. Todorov, T, **Nikolova, L**, Tomova, N. Polarization holography. 1: A new high-efficiency organic material with reversible photoinduced birefringence. Applied Optics, 23, 23, OSA (Optical Society of America), 1984, ISSN:0003-6935, DOI:https://doi.org/10.1364/AO.23.004309, 4309-4312. SJR (Scopus):1.667, JCR-IF (Web of Science):1.707

Цитира се в:

1. V. M. Kozenkov, V. V. Belyaev, D. N. Chausov. "Photo-Induced Anisotropy of Methyl Red Azo Dye in Polymer Film". Liquid Crystals and their Application (IF2022:0.5, Q4), Vol. 22(4), pp. 63–72, 2022. DOI: 10.18083/LCAppl.2022.4.63, @2022 [Линк](#) **1.000**

2. Todorov, T, **Nikolova, L**, Tomova, N. Polarization holography. 2: Polarization holographic gratings in photoanisotropic materials with and without intrinsic birefringence. Applied Optics, 23, 24, OSA (Optical Society of America), 1984, ISSN:0003-6935, DOI:https://doi.org/10.1364/AO.23.004588, 4588-4591. SJR (Scopus):1.667, JCR-IF (Web of Science):1.707

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2. Y. Zhang, Q. Zhang, X. Jiang, S. Zheng, J. Li, X. Xu, Y. Yang, Z. Huang, X. Tan. "Circular polarization detector based on polarization holography". Optics Letters (IF2022:3.6, Q2), Vol. 47, Issue 22, pp. 5941-5944, 2022. https://doi.org/10.1364/OL.474089, @2022 [Линк](#) **1.000**

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3. Mihailova, B., Bogachev, G., **Marinova, V.**, Konstantinov, L.. Raman spectroscopy study of sillenites. II. Effect of doping on Raman spectra of Bi12TiO20. Journal of Physics and Chemistry of Solids, 60, 11, 1999, 1829-1834. ISI IF:1.853

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3. Hangmin Guan, Qingnian Wang, Yan Feng, Hong Sun, Wenyan Zhang, Yingfei Hu, and Qian Zhong "Preparation of Binary Type II α -Bi2O3/Bi12TiO20 Cross-Shaped Heterojunction with Enhanced Visible Light Photocatalytic Performance" ACS Appl. Electron. Mater., 4, 3, 1132–1142 (2022), @2022 [Линк](#) **1.000**

4. Huihui Gan, Shuo Pan, Xiuhan Liu and Ying Huang "Enhanced Photocatalytic Removal of Hexavalent Chromium over Bi12TiO20/RGO Polyhedral Microstructure Photocatalysts" Nanomaterials, 12(13), 2138 (2022), @2022 [Линк](#) **1.000**

4. Billas, IML, Massobrio, C, Boero, M, Parrinello, M, Branz, W, Tast, F, **Malinowski, N**, Heinebrodt, M, Martin, TP. First principles calculations of Si doped fullerenes: Structural and electronic localization properties in C59Si and C58Si2. JOURNAL OF CHEMICAL PHYSICS, 111, 15, AMER INST PHYSICS, CIRCULATION FULFILLMENT DIV, 1999, ISSN:0021-9606, DOI:10.1063/1.480018, 6787-6796. ISI IF:3.017

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5. Molla, S; Khatun, F; (...); Thakur, P., "Electroactive CTAB/PVDF composite film based photo-rechargeable hybrid power cell for clean energy generation and storage", SCIENTIFIC REPORTS, 12 (1), @2022 [Линк](#) 1.000

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5. **Dimitrov, D**, Shieh, H.-P. D.. The influence of oxygen and nitrogen doping on properties of GeSbTe phase-change optical recording media. Materials Science and Engineering B, 107, 2004, 107-112. SJR (Scopus):0.89, JCR-IF (Web of Science):2.169

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6. Lucie Prazakova "Advanced characterization for the development of innovative non-volatile memories" Thesis, Materials Science [cond-mat.mtrl-sci]. Université Grenoble Alpes [2022], @2022 1.000

2007

6. Todorov, T, **Nikolova, L**, Stoilov, G, Hristov, B. Spectral Stokesmeter. 1. Implementation of the device. Applied Optics, 46, 27, OSA (Optical Society of America), 2007, ISSN:0003-6935, DOI:<https://doi.org/10.1364/AO.46.006662>, 6662-6668. SJR (Scopus):1.219, JCR-IF (Web of Science):1.905

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7. P. Qi, J. Wang, Y. Yang, X. Yuan, T. Ye, A. Lin, Y. Zhang, Zh. Huang, X. Tan. "Simultaneously characterized Stokes parameters of a lightwave utilizing the tensor polarization holography theory". Optics Express (IF2022: 3.8, Q2), Vol. 30(26), pp. 47264-47279, 2022. <https://doi.org/10.1364/OE.472855>, @2022 [Линк](#) 1.000

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7. **Stoykova, E.**, Paepegem, W. Van, Pauw, De., Degrieck, J., Sainov, V.. Study of mechanical characteristics of window security films by phase-stepping photoelasticity. SPIE, 7027, 2008, ISI IF:0.2

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8. **Nikolova, L**, Ramanujam, P. Polarization Holography. Cambridge University Press, 2009, ISBN:978-0-521-50975-6, DOI:<https://doi.org/10.1017/CBO9780511581489>, 266

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9. Rauschenbach, S., Vogelgesang, R, **Malinowski, N**, Gerlach, JW, Benyoucef, M, Costantini, G, Deng, ZT, Thontasen, N, Kern, K. Electrospray Ion Beam Deposition: Soft-Landing and Fragmentation of Functional Molecules at Solid Surfaces. ACS NANO, 3, 10, AMER CHEMICAL SOC, 2009, ISSN:1936-0851, DOI:DOI: 10.1021/nn900022p, 2901-2910. ISI IF:14.412

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11. Todorov, N. D., Abrashev, M. V., Ivanov, V. G., Tsutsumanova, G.G., **Marinova, V.**, Wang, Y.Q., Iliev, M. N.. Comparative Raman study of isostructural YCrO₃ and YMnO₃: Effects of structural distortions and twinning. Physical Review B, 83, 22, 2011, 224303. ISI IF:3.736
- Цитира се е:
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- Цитира се е:
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- Цитира се е:
 15. W. R. Lopes, P.V.dos Santos, J.G.V.Rocha, J.F.Carvalho, M.T.de Araujo "Hole-electron competition investigated by holographic recording in Bi₁₂TiO₂₀ crystal under applied electric field" Optical Materials, Volume 128, 112445 (2022), @2022 [Линк](#) 1.000

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15. Shrestha K, **Marinova, V**, Graf D, Lorenz B, Chu C W. "Simultaneous detection of quantum oscillations from bulk and topological surface states in metallic Bi₂Se_{2.1}Te_{0.9}". Philosophical Magazine, 97, 20, 2017, DOI:10.1080/14786435.2017.1314563, 1740-1754. JCR-IF (Web of Science):1.505
- Цитира се е:
 17. Nguyen, T., Aryal, N., Pokharel, B.K., Harnagea, L., Mierstchin, D., Popović, D., Graf, D.E., Shrestha, K. Fermiology of the Dirac type-II semimetal candidates (Ni, Zr) Te₂ using de Haas-van Alphen oscillations (2022) Physical Review B, 106 (7), art. no. 075154, . DOI: 10.1103/PhysRevB.106.075154, @2022 [Линк](#) 1.000

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 18. Srikanth K., Narsihma L, Narsimulu M., Kumar M. S., Laxminarayana K., Srinivas M., Synthesis and luminescence properties of Ce³⁺ doped (Sr, Ba)₂GeO₄ phosphors, Materials Today: Proceedings, V. 49, Part 5, pp. 1916-1919, 2022, , @2022 [Линк](#) 1.000

17. **Kircheva, N., Dobrev, S.,** Nikolova, V., **Angelova, S.,** Dudev, T.. Zinc and its critical role in Retinitis pigmentosa: Insights from DFT/SMD calculations. *Inorganic Chemistry*, 59, 23, ACS, 2020, ISSN:0020-1669, DOI:10.1021/acs.inorgchem.0c02664, 17347-17355. SJR (Scopus):1.349, JCR-IF (Web of Science):4.825

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18. **Georgiev, A, Yordanov, D, Dimov, D, Zhivkov, I, Nazarova, D,** Weiter, M. Azomethine phthalimides fluorescent E→Z photoswitches. *Journal of Photochemistry and Photobiology A: Chemistry*, 393, 112443, Elsevier, 2020, DOI:https://doi.org/10.1016/j.jphotochem.2020.112443, SJR (Scopus):0.657, JCR-IF (Web of Science):3.331

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23. Chopard, A., Tsiplakova, E., Balbekin, N., Smolyanskaya, O., Perraud, J.-B., Guillet, J.-P., Petrov, N.V., Mounaix, P. Single-scan multiplane phase retrieval with a radiation of terahertz quantum cascade laser (2022) *Applied Physics B: Lasers and Optics*, 128 (3), art. no. 63, DOI: 10.1007/s00340-022-07787-x, @2022 [Линк](#) 1.000
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27. Petrov, N.V., Sokolenko, B., Kulya, M.S., Gorodetsky, A., Chernykh, A.V. Design of broadband terahertz vector and vortex beams: I. Review of materials and components (2022) *Light: Advanced Manufacturing*, 3 (4), art. no. 43, DOI: 10.37188/lam.2022.043, @2022 [Линк](#) 1.000
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29. Quan, X., Kato, D., Daria, V., Matoba, O., Wake, H. Holographic microscope and its biological application (2022) *Neuroscience Research*, 179, pp. 57-64. DOI: 10.1016/j.neures.2021.10.012, @2022 [Линк](#) 1.000
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35. Camosi, L.; Světlík, J.; Costache, Marius V; Torres, W. S.; Aguirre, I. F. Marinova, V.; Dimitrov, D.; Gospodinov, M.; Sierra, J. F.; Valenzuela, S. O. "Resolving spin currents and spin densities generated by charge-spin interconversion in systems with reduced crystal symmetry", *2D Materials* 9(3), 035014, 2022, ISSN 20531583, DOI 10.1088/2053-1583/ac6fec, @2022 [Линк](#) 1.000

24. Aleksandrova M., Ivanova T., **Stijkova V.**, Tsanev T., Singh A. K., Singh J., Gesheva K.. Ga-doped zno coating—a suitable tool for tuning the electrode properties in the solar cells with cds/zns core-shell quantum dots. *Crystals*, 11, MDPI AG, 2021, ISSN:20734352, DOI:10.3390/cryst11020137, 1-11. SJR (Scopus):0.538, JCR-IF (Web of Science):2.4

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36. Shrivastav, N., Kashyap, S., Pandey, R., Madan, J. , "Design and Simulation of 7% Efficient Lead-Free Perovskite Single Junction Solar Cell", *Proceedings of 2022 IEEE International Conference of Electron Devices Society Kolkata Chapter, EDKCON 2022*, pp. 39-42 , 2022, ISBN 978-166547205-0, DOI 10.1109/EDKCON56221.2022.10032901, @2022 [Линк](#) 1.000

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37. N. Z. Ismailov & U. S. Valiev "Spectral Energy Distribution for T Tauri Stars with a Debris Disk" *Astronomy Reports*, volume 66, pages 965–980 (2022) <https://doi.org/10.1134/S1063772922100067>, @2022 [Линк](#) 1.000

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38. Žalga, A., Diktanaite, A., Gaidamavičiene, G. "Aqueous sol-gel synthesis, thermoanalytical, structural and vibrational studies of lithium aluminium molybdate (LiAlMo₂O₈)", *Chemija* 33(4), pp. 127-135., @2022 [Линк](#) 1.000