

Списък на публикациите на доц. дфзн Станислав Балусhev  
за участие в конкурс

4.1. Физически науки (Физика на атомите и молекулите)...,  
обявен в ДВ, бр. 24/17.03.2023 г, стр. 58.

Names: **Balushev**, Stanislav (*scientific publications; German spelling*)

Names: **Balouchev**, Stanislav (*in legal documents, patents; French spelling*)

**ORCID ID:** <https://orcid.org/0000-0002-0742-0687>

**h** (Web of Science): **26**

**h** (Google Scholar): **29**

**P1.** Shin-ichiro Kawano, Ch. Yang, M. Ribas, **S. Balushev**, M. Baumgarten, and K. Müllen “**Blue Emitting Poly(2,7-pyrenylene)s: Synthesis and Optical Properties**”, *Macromolecules* **41**, 7933 – 7937, **2008**.

DOI: 10.1021/ma8017316

**Accession Number:** WOS:000260612700027; **ISSN:** 0024-9297; **eISSN:** 1520-5835.

**P2.** S. Hess, M. Demir, V. Yakutkin, **S. Balushev**, G. Wegner, “**Investigation of Oxygen Permeation through Composites of PMMA and Surface-Modified ZnO Nanoparticles**”, *Macromol. Rapid Commun.* **30**, 394 – 401, **2009**.

DOI: 10.1002/marc.200800732

**Accession Number:** WOS:000250351900013; **ISSN:** 1022-1352

**P3.** R. E. Keivanidis, **S. Balushev**, G. Lieser, G. Wegner, “**Inherent Photon Energy Recycling Effects in the Up-Converted Delayed Luminescence Dynamics of Poly(fluorene)-Pt(II)octaethyl Porphyrin Blends**”, *ChemPhysChem* **10** (13) 2316–2326, **2009**.

DOI: 10.1002/cphc.200900290

**Accession Number:** WOS:000269979600023

**PubMed ID:** 19672914; **ISSN:** 1439-4235; **eISSN:** 1439-7641

**P4.** V. A.-F. Deichmann, V. Yakutkin, S. Balushev, and L. Akcelrud “**Optical Tuning of the Fluorescence Spectrum of a  $\pi$ -Conjugated Polymer through Excitation Power**” *J. Phys. Chem. B*, 115 (20) 6385-6394, **2011**.

<https://doi.org/10.1021/jp111424w>

**Accession Number:** WOS:000290652100001;

**PubMed ID:** 21526801; **ISSN:** 1520-6106; **eISSN:** 1520-5207

**P5.** D. Busko, **S. Balushev**, D. Crespy, A. Turshatov, K. Landfester, “**New possibilities for materials science with STED microscopy**”, *Micron* **43**, 583–588, **2012**.

doi:10.1016/j.micron.2011.10.003

**Accession Number:** WOS:000302673600002; **ISSN:** 0968-4328

**P6.** R. Sauer, A. Turshatov, **S. Balushev**, K. Landfester, “**One-Pot Production of Fluorescent Surface-Labeled Polymeric Nanoparticles via Miniemulsion Polymerization with Bodipy Surfmers**”, *Macromolecules* **45**, 3787–3796, **2012**

[dx.doi.org/10.1021/ma300090a](https://doi.org/10.1021/ma300090a)

**Accession Number:** WOS:000303628500016; **ISSN:** 0024-9297; **eISSN:** 1520-5835

**P7.** M. A. Filatov, E. Heinrich, K. Landfester and **S. Balushev**, “*meso-Tetraphenylporphyrin with a  $\pi$ -system extended by fusion with anthraquinone*”, *Org. Biomol. Chem.*, **2015**, 13, 6977-6983.

DOI: 10.1039/c5ob00884k

**Accession Number:** WOS:000356374500013

**PubMed ID:** 26023033; **ISSN:** 1477-0520 ; **eISSN:** 1477-0539

**P8.** M. A. Filatov, F. Etzold, D. Gehrig, F. Laquai, D. Busko, K. Landfester, and **S. Balushev**, “*Interplay Between Singlet and Triplet Excited States in a Conformationally Locked Donor-Acceptor Dyad*”, *Dalton Transactions* **2015**, 44, 19207–19217.

DOI: 10.1039/c5dt03784k

**Accession Number:** WOS:000364146400020

**PubMed ID:** 26488635; **ISSN:** 1477-9226; **eISSN:** 1477-9234

**P9.** A. Vasilev, **S. Balushev**, D. Cheshmedzhieva, S. Ilieva, O. D. Castano, J. J. Vaquero, S. Angelova, and K. Landfester, “*Assembly of New Merocyanine Chromophores with a 1,8-Naphthalimide Core by a New Method for the Synthesis of the Methine Function*”, *Aust. J. Chem.* **2015**, 68, 1399–1408.

DOI: 10.1071/CH15139

**Accession Number:** WOS:000360990400013; **ISSN:** 0004-9425; **eISSN:** 1445-0038

**P10.** A. J. Svagan, C. B. Koch, M. S. Hedenqvist, F. Nilsson, G. Glasser, **S. Balushev**, M. L. Andersen, “*Liquid-core nanocellulose-shell capsules with tunable oxygen permeability*”, *Carbohydrate Polymers* **2016**, 136, 292–299.

DOI: 10.1016/j.carbpol.2015.09.040

**Accession Number:** WOS:000365972000037

**PubMed ID:** 26572358; **ISSN:** 0144-8617; **eISSN:** 1879-1344

**P11.** A. Vasilev, M. Kandinska, S. Stoyanov, S. Yordanova, D. Sucunza, J. Vaquero, O. D. Castaño, **S. Balushev** and S. Angelova, “*Halogen-containing thiazole orange analogues – new fluorogenic DNA stains*”, *Beilstein J. Org. Chem.* **2017**, 13, 2902–2914.

DOI:10.3762/bjoc.13.283

**Accession Number:** WOS:000423179400002; **PubMed ID:** 29564018; **ISSN:** 1860-5397

**P12.** K. Katta, D. Busko, K. Landfester, **S. Balushev**, and R. Muñoz-Espí, “*Inorganic Protection of Polymer Nanocapsules: A Strategy to Improve the Efficiency of Encapsulated Optically Active Molecules*”, *Isr. J. Chem.* **2018**, 58, 1356 – 1362.

DOI: 10.1002/ijch.201800111

**Accession Number:** WOS:000455528500009; **ISSN:** 0021-2148; **eISSN:** 1869-5868

**P13.** K. Katta, D. Busko, Y. Avlasevich, K. Landfester, **S. Balushev** and R. Muñoz-Espí, “*Ceria/polymer nanocontainers for high-performance encapsulation of fluorophores*”, *Beilstein J. Nanotechnol.* **2019**, 10, 522–530.

doi:10.3762/bjnano.10.53

**Accession Number:** WOS:000459439100001; **PubMed ID:**30873324; **ISSN:** 2190-4286

**P14.** M. Kandinska, S. Kitova, V. Videva, S. Stoyanov, S. Yordanova, **S. Balushev**, S. Angelova, A. Vasilev, “**Precious metal-free molecular machines for solar thermal energy storage**”, *Beilstein J. Org. Chem.* **2019**, 15, 1096–1106.

doi:10.3762/bjoc.15.106

**Accession Number:** WOS:000468045800001; **PubMed ID:** 31164946; **ISSN:** 1860-5397

**P15.** Olga Zhytniakivska, Mykhailo Grych, Valeriya Trusova, Galyna Gorbenko, Aleksey Vasilev, Meglena Kandinska, Atanas Kurutos, **Stanislav B. Balushev**, „**Spectroscopic and molecular docking studies of the interactions of monomeric unsymmetrical polycationic fluorochromes with DNA and RNA**“, *Dyes and Pigments* **2020**, 180, 108446:10.

<https://doi.org/10.1016/j.dyepig.2020.108446>

**Accession Number:** WOS:000541131700043; **ISSN:** 0143-7208; **eISSN:** 1873-3743

**P16.** N. Nazarova, Y. Avlasevich, K. Landfester, and **S. Balushev**, „**All-Optical Temperature Sensing in Organogel Matrices via Annihilation Upconversion**“, *ChemPhotoChem* **2019**, 3, 1020 – 1026.

DOI:10.1002/cptc.201900093

**Accession Number:** WOS:000492468700007; **ISSN:** 2367-0932

**P17.** Banu Iyisan, Raweewan Thiramanas, Nadzeya Nazarova, Yuri Avlasevich, Volker Mailänder, **Stanislav Balushev**, and Katharina Landfester, “**Temperature Sensing in Cells Using Polymeric Upconversion Nanocapsules**” *Biomacromolecules* **2020**, 21, 4469–4478

<https://dx.doi.org/10.1021/acs.biomac.0c00377>

**Accession Number:** WOS:000592221000007

**PubMed ID:** 32432855; **ISSN:** 1525-7797; **eISSN:** 1526-4602

**P18.** Aleksey Vasilev, Ralitza Dimitrova, Meglena Kandinska, Katharina Landfester and **Stanislav Balushev**, “**Accumulation of the photonic energy of the deep-red part of the terrestrial sun irradiation by rare-earth metal-free E–Z photoisomerization**” *J. Mater. Chem. C*, **2021**, 9, 7119–7126

<https://doi.org/10.1039/D1TC01257F>

**Accession Number:** WOS:000652634900001; **ISSN:** 2050-7526; **eISSN:** 2050-7534

**P19.** Ernesta Heinrich, Yuri Avlasevich, Katharina Landfester and **Stanislav Balushev**, „**How to minimize light – organic matter interaction for all-optical sub-cutaneous temperature sensing**“ *ACS Omega* **2021**, 6, 18860–18867.

<https://doi.org/10.1021/acsomega.1c02057>

**Accession Number:** WOS:000679374200031; **PubMed ID:** 34337225; **ISSN:** 2470-1343

**P20.** M.I.Kandinska, D.V.Cheshmedzhieva, A.Kostadinov, K.Rusinov, M.Rangelov, N.Todorova, S.Ilieva, D.P.Ivanov, V.Videva, V.S.Lozanov, **S.Balushev**, K.Landfester, A.A.Vasilev „**Tricationic asymmetric monomeric monomethine cyanine dyes with chlorine and trifluoromethyl functionality – Fluorogenic nucleic acids probes**“ *Journal of Molecular Liquids* **2021**, 342, 117501.

<https://doi.org/10.1016/j.molliq.2021.117501>

<p><b>Accession Number:</b> WOS:000700317100071; <b>ISSN:</b> 0167-7322; <b>eISSN:</b> 1873-3166</p>
<p><b>P21.</b> Banu Iyisan, Johanna Simon, Yuri Avlasevich, <b>Stanislav Balushev</b>, Volker Mailaender, and Katharina Landfester, “<b>Antibody-Functionalized Carnauba Wax Nanoparticles to Target Breast Cancer Cells</b>” <i>ACS Appl. Bio Mater.</i> <b>2022</b>, 5, 622–629  <a href="https://doi.org/10.1021/acsabm.1c01090">https://doi.org/10.1021/acsabm.1c01090</a>  <b>Accession Number:</b> WOS:000740500500001; <b>PubMed ID:</b> 35014837; <b>ISSN:</b> 2576-6422</p>
<p><b>P22.</b> Iva Zonjić, Marijana Radić Stojković, Ivo Crnolatac, Ana Tomašić Paić, Silvia Pšenićnik, Aleksey Vasilev, Meglena Kandinska, Mihail Mondeshki, <b>Stanislav Balushev</b>, Katharina Landfester, Ljubica Glavaš-Obrovac, Marijana Jukić, Juran Kralj, Anamaria Brozovic, Lucija Horvat, Lidija-Marija Tumir, „<b>Styryl dyes with N-Methylpiperazine and N-Phenylpiperazine Functionality: AT-DNA and G-quadruplex binding ligands and theranostic agents</b>“, <i>Bioorganic Chemistry</i> <b>2022</b>, 127, 105999,  <a href="https://doi.org/10.1016/j.bioorg.2022.105999">https://doi.org/10.1016/j.bioorg.2022.105999</a>  <b>Accession Number:</b> WOS:000841132200004  <b>PubMed ID:</b> 35809513; <b>ISSN:</b> 0045-2068; <b>eISSN:</b> 1090-2120</p>
<p><b>P23.</b> S. Marx, <b>S. Balushev</b>, W. Sickenberger, “<b>Solution-related in Vitro Dewetting Behavior of Various Daily Disposable Contact Lenses</b>”; <i>Optometry and Vision Science</i>, <b>2022</b>, 99 (10), 750 – 757,  <a href="https://10.1097/OPX.0000000000001939">https://10.1097/OPX.0000000000001939</a>  <b>Accession Number:</b> WOS:000863933400004  <b>PubMed ID:</b> 36095059; <b>ISSN:</b> 1040-5488; <b>eISSN:</b> 1538-9235</p>
<p><b>P24.</b> Aleksey Vasilev, Anton Kostadinov, Meglena Kandinska, Katharina Landfester and <b>Stanislav Balushev</b>, „<b>Tetrathienothiophene Porphyrin as a Metal-Free Sensitizer for Room-Temperature Triplet-Triplet Annihilation Upconversion</b>“, <i>Frontiers in Chemistry</i> <b>2022</b>, 10:809863,  doi: 10.3389/fchem.2022.809863  <b>Accession Number:</b> WOS:000805943800001; <b>PubMed ID:</b> 35559213</p>
<p><b>P25.</b> Maria Micheva, <b>Stanislav Balushev</b> and Katharina Landfester, “<b>Thermally activated delayed fluorescence in an optically accessed soft matter environment</b>”, <i>J. Mater. Chem. C</i>, <b>2022</b>, 10, 4533–4545,  DOI: 10.1039/d1tc04915a  <b>Accession Number:</b> WOS:000752516700001; <b>ISSN:</b> 2050-7526; <b>eISSN:</b> 2050-7534</p>
<p><b>P26.</b> <b>S. Balushev</b>, Chapter 8, “<b>Protective Strategies Toward Long-Term Operation of Annihilation Photon Energy Upconversion</b>”, J. S. Lissau, M. Madsen (eds.), <i>Emerging Strategies to Reduce Transmission and Thermalization Losses in Solar Cells</i>, 149-167, Springer Nature Switzerland AG <b>2022</b>.  <a href="https://doi.org/10.1007/978-3-030-70358-5_8">https://doi.org/10.1007/978-3-030-70358-5_8</a>  <b>ISBN:</b> 978-3-030-70357-8</p>

През последните 2 години – 2021 / 2022 - 6 водещ, след ГД дисертация, общо 9 публикации след ГД.