Sergey Deyev

List of Publications by Year in Descending Order

216 papers	3,377 citations	29 h-index	47 g-index
236 ext. papers	4,203 ext. citations	4.7 avg, IF	5.61 L-index

#	Paper	IF	Citations
216	Targeted nuclear medicine. Seek and destroy.. *Russian Chemical Reviews*, **2022**, 91,	6.8	3
215	Direct photoacoustic measurement of silicon nanoparticle degradation promoted by a polymer coating. *Chemical Engineering Journal*, **2022**, 430, 132860	14.7	4
214	Genetically encoded BRET-activated photodynamic therapy for the treatment of deep-seated tumors.. *Light: Science and Applications*, **2022**, 11, 38	16.7	2
213	Laser-Ablative Synthesis of Ultrapure Magneto-Plasmonic Core-Satellite Nanocomposites for Biomedical Applications.. *Nanomaterials*, **2022**, 12,	5.4	1
212	Laser ablation of Fe2B target enriched in 10B content for boron neutron capture therapy. *Laser Physics Letters*, **2022**, 19, 066002	1.5	0
211	Artificial Scaffold Polypeptides As an Efficient Tool for the Targeted Delivery of Nanostructures In Vitro and In Vivo.. *Acta Naturae*, **2022**, 14, 54-72	2.1	4
210	3D Models of Cellular Spheroids As a Universal Tool for Studying the Cytotoxic Properties of Anticancer Compounds In Vitro.. *Acta Naturae*, **2022**, 14, 92-100	2.1	1
209	Photothermal Therapy with HER2-Targeted Silver Nanoparticles Leading to Cancer Remission. *Pharmaceutics*, **2022**, 14, 1013	6.4	3
208	Laser Synthesized Core-Satellite Fe-Au Nanoparticles for Multimodal In Vivo Imaging and In Vitro Photothermal Therapy. *Pharmaceutics*, **2022**, 14, 994	6.4	2
207	Macrophage blockade using nature-inspired ferrihydrite for enhanced nanoparticle delivery to tumor.. *International Journal of Pharmaceutics*, **2022**, 621, 121795	6.5	0
206	Cancer cells targeting with genetically engineered constructs based on a pH-dependent membrane insertion peptide and fluorescent protein.. *Biochemical and Biophysical Research Communications*, **2022**, 612, 141-146	3.4	
205	Barnase*Barstar-guided two-step targeting approach for drug delivery to tumor cells in vivo. *Journal of Controlled Release*, **2021**, 340, 200-208	11.7	1
204	Photoluminescent Nanomaterials for Medical Biotechnology. *Acta Naturae*, **2021**, 13, 16-31	2.1	1
203	Photoluminescent Nanomaterials for Medical Biotechnology. *Acta Naturae*, **2021**, 13, 16-31	2.1	1
202	Barnase-Barstar Pair: Contemporary Application in Cancer Research and Nanotechnology. *Molecules*, **2021**, 26,	4.8	2
201	Label-free methods of multiparametric surface plasmon resonance and MPQ-cytometry for quantitative real-time measurements of targeted magnetic nanoparticles complexation with living cancer cells. *Materials Today Communications*, **2021**, 29, 102978	2.5	2
200	Antigen-Specific Stimulation and Expansion of CAR-T Cells Using Membrane Vesicles as Target Cell Surrogates. *Small*, **2021**, 17, e2102643	11	1

199	DARPin_9-29-Targeted Gold Nanorods Selectively Suppress HER2-Positive Tumor Growth in Mice. *Cancers*, **2021**, 13,	6.6	3
198	Comparison of pharmacokinetics and biodistribution of laser-synthesized plasmonic Au and TiN nanoparticles. *Journal of Physics: Conference Series*, **2021**, 2058, 012004	0.3	0
197	MIL-53 (Al) metal-organic frameworks as potential drug carriers. *Journal of Physics: Conference Series*, **2021**, 2058, 012015	0.3	
196	Novel advanced nanotechnologies for nuclear medicine. *Journal of Physics: Conference Series*, **2021**, 2058, 012035	0.3	1
195	Natural and Designed Toxins for Precise Therapy: Modern Approaches in Experimental Oncology. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	5
194	Comparative Evaluation of Engineered Polypeptide Scaffolds in HER2-Targeting Magnetic Nanocarrier Delivery. *ACS Omega*, **2021**, 6, 16000-16008	3.9	7
193	PLGA Nanoparticles Decorated with Anti-HER2 Affibody for Targeted Delivery and Photoinduced Cell Death. *Molecules*, **2021**, 26,	4.8	10
192	Influence of the Position and Composition of Radiometals and Radioiodine Labels on Imaging of Epcam Expression in Prostate Cancer Model Using the DARPin Ec1. *Cancers*, **2021**, 13,	6.6	3
191	Laser-synthesized TiN nanoparticles for biomedical applications: Evaluation of safety, biodistribution and pharmacokinetics. *Materials Science and Engineering C*, **2021**, 120, 111717	8.3	23
190	In vivo blockade of mononuclear phagocyte system with solid nanoparticles: Efficiency and affecting factors. *Journal of Controlled Release*, **2021**, 330, 111-118	11.7	22
189	Barnase encapsulation into submicron porous CaCO particles: studies of loading and enzyme activity. *Journal of Materials Chemistry B*, **2021**, 9, 8823-8831	7.3	3
188	Long-Term Fate of Magnetic Particles in Mice: A Comprehensive Study. *ACS Nano*, **2021**,	16.7	17
187	Imaging-Guided Therapy Simultaneously Targeting HER2 and EpCAM with Trastuzumab and EpCAM-Directed Toxin Provides Additive Effect in Ovarian Cancer Model. *Cancers*, **2021**, 13,	6.6	4
186	Phase I trial of Tc-(HE)-G3, a DARPin-based probe for imaging of HER2 expression in breast cancer. *Journal of Nuclear Medicine*, **2021**,	8.9	9
185	Targeting Cancer Cell Tight Junctions Enhances PLGA-Based Photothermal SensitizersP Performance In Vitro and In Vivo.. *Pharmaceutics*, **2021**, 14,	6.4	3
184	Doxycycline Sensitive Two-Promoter Integrator Based on the TET-ON 3G Transactivator. *Molecular Biology*, **2020**, 54, 269-273	1.2	1
183	Chemotherapeutic Agents Sensitize Resistant Cancer Cells to the DR5-Specific Variant DR5-B more Efficiently than to TRAIL by Modulating the Surface Expression of Death and Decoy Receptors. *Cancers*, **2020**, 12,	6.6	4
182	Feasibility of Imaging EpCAM Expression in Ovarian Cancer Using Radiolabeled DARPin Ec1. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	8

181	Multifunctional Complexes Based on Photoluminescent Upconversion Nanoparticles for Theranostics of the HER2-Positive Tumors. *Doklady Biochemistry and Biophysics*, **2020**, 491, 73-76	0.8	4
180	RNA Sequencing-Based Identification of Ganglioside GD2-Positive Cancer Phenotype. *Biomedicines*, **2020**, 8,	4.8	9
179	Enhancement of the blood-circulation time and performance of nanomedicines via the forced clearance of erythrocytes. *Nature Biomedical Engineering*, **2020**, 4, 717-731	19	54
178	Near-Infrared Molecular Imaging of Glioblastoma by Miltuximab-IRDye800CW as a Potential Tool for Fluorescence-Guided Surgery. *Cancers*, **2020**, 12,	6.6	6
177	Plants with genetically encoded autoluminescence. *Nature Biotechnology*, **2020**, 38, 944-946	44.5	41
176	Delivery of Barnase to Cells in Liposomes Functionalized by Her2-Specific DARPin Module. *Russian Journal of Bioorganic Chemistry*, **2020**, 46, 1156-1161	1	8
175	On the prevention of kidney uptake of radiolabeled DARPins. *EJNMMI Research*, **2020**, 10, 7	3.6	11
174	Growth Retardation of Poorly Transfectable Tumor by Multiple Injections of Plasmids Encoding PE40 Based Targeted Toxin Complexed with Polyethylenimine. *Current Gene Therapy*, **2020**, 20, 289-296	4.3	0
173	Near-Infrared Activated Cyanine Dyes As Agents for Photothermal Therapy and Diagnosis of Tumors. *Acta Naturae*, **2020**, 12, 102-113	2.1	11
172	Effect of a radiolabel biochemical nature on tumor-targeting properties of EpCAM-binding engineered scaffold protein DARPin Ec1. *International Journal of Biological Macromolecules*, **2020**, 145, 216-225	7.9	13
171	Dual Targeting of Cancer Cells with DARPin-Based Toxins for Overcoming Tumor Escape. *Cancers*, **2020**, 12,	6.6	19
170	Radionuclide Molecular Imaging of EpCAM Expression in Triple-Negative Breast Cancer Using the Scaffold Protein DARPin Ec1. *Molecules*, **2020**, 25,	4.8	6
169	UCNP-based Photoluminescent Nanomedicines for Targeted Imaging and Theranostics of Cancer. *Molecules*, **2020**, 25,	4.8	7
168	Fast processes of nanoparticle blood clearance: Comprehensive study. *Journal of Controlled Release* , **2020**, 326, 181-191	11.7	24
167	Dual Regioselective Targeting the Same Receptor in Nanoparticle-Mediated Combination Immuno/Chemotherapy for Enhanced Image-Guided Cancer Treatment. *ACS Nano*, **2020**, 14, 12781-12795	16.7	20
166	DARPin_9-29-Targeted Mini Gold Nanorods Specifically Eliminate HER2-Overexpressing Cancer Cells. *ACS Applied Materials & Interfaces*, **2019**, 11, 34645-34651	9.5	14
165	New Frontiers in Diagnosis and Therapy of Circulating Tumor Markers in Cerebrospinal Fluid In Vitro and In Vivo. *Cells*, **2019**, 8,	7.9	14
164	Nanoparticle-based drug delivery via RBC-hitchhiking for the inhibition of lung metastases growth. *Nanoscale*, **2019**, 11, 1636-1646	7.7	81

163	Indirect Radioiodination of DARPin G3 Using N-succinimidyl--Iodobenzoate Improves the Contrast of HER2 Molecular Imaging. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	12
162	Penetration Efficiency of Antitumor Agents in Ovarian Cancer Spheroids: The Case of Recombinant Targeted Toxin DARPin-LoPE and the Chemotherapy Drug, Doxorubicin. *Pharmaceutics*, **2019**, 11,	6.4	13
161	HER2-Specific Targeted Toxin DARPin-LoPE: Immunogenicity and Antitumor Effect on Intraperitoneal Ovarian Cancer Xenograft Model. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	18
160	Phase-Responsive Fourier Nanotransducers for Probing 2D Materials and Functional Interfaces. *Advanced Functional Materials*, **2019**, 29, 1902692	15.6	10
159	Preclinical Study of Biofunctional Polymer-Coated Upconversion Nanoparticles. *Toxicological Sciences*, **2019**, 170, 123-132	4.4	19
158	Comparison of tumor-targeting properties of directly and indirectly radioiodinated designed ankyrin repeat protein (DARPin) G3 variants for molecular imaging of HER2. *International Journal of Oncology*, **2019**, 54, 1209-1220	4.4	9
157	Laser-Ablative Synthesis of Isotope-Enriched Samarium Oxide Nanoparticles for Nuclear Nanomedicine. *Nanomaterials*, **2019**, 10,	5.4	7
156	Optimal composition and position of histidine-containing tags improves biodistribution of Tc-labeled DARPin G3. *Scientific Reports*, **2019**, 9, 9405	4.9	23
155	Resolution and contrast enhancement of laser-scanning multiphoton microscopy using thulium-doped upconversion nanoparticles. *Nano Research*, **2019**, 12, 2933-2940	10	7
154	Multimerization through Pegylation Improves Pharmacokinetic Properties of scFv Fragments of GD2-Specific Antibodies. *Molecules*, **2019**, 24,	4.8	6
153	"Green" Synthesis of Cytotoxic Silver Nanoparticles Based on Secondary Metabolites of Lavandula Angustifolia Mill. *Acta Naturae*, **2019**, 11, 47-53	2.1	9
152	DARPins: Promising Scaffolds for Theranostics. *Acta Naturae*, **2019**, 11, 42-53	2.1	23
151	Nuclear nanomedicine using Si nanoparticles as safe and effective carriers of Re radionuclide for cancer therapy. *Scientific Reports*, **2019**, 9, 2017	4.9	27
150	Removal of the Translocation Domain and the Furin Cleavage Site Decreases the Relative Hepatotoxicity of the Targeted Antitumor Toxins. *Doklady Biochemistry and Biophysics*, **2019**, 489, 370-372	0.8	
149	Self-assembling nanoparticles biofunctionalized with magnetite-binding protein for the targeted delivery to HER2/neu overexpressing cancer cells. *Journal of Magnetism and Magnetic Materials*, **2019**, 469, 450-455	2.8	16
148	3D in vitro models of tumors expressing EGFR family receptors: a potent tool for studying receptor biology and targeted drug development. *Drug Discovery Today*, **2019**, 24, 99-111	8.8	8
147	Magnetometry based method for investigation of nanoparticle clearance from circulation in a liver perfusion model. *Nanotechnology*, **2019**, 30, 105101	3.4	6
146	Comparative Evaluation of Two DARPin Variants: Effect of Affinity, Size, and Label on Tumor Targeting Properties. *Molecular Pharmaceutics*, **2019**, 16, 995-1008	5.6	23

145	A Highly Specific Substrate for NanoLUC Luciferase Furimazine Is Toxic in vitro and in vivo. *Russian Journal of Bioorganic Chemistry*, **2018**, 44, 225-228	1	10
144	Versatile Platform for Nanoparticle Surface Bioengineering Based on SiO-Binding Peptide and Proteinaceous Barnase*Barstar Interface. *ACS Applied Materials & Interfaces*, **2018**, 10, 17437-17447	9.5	31
143	Selective staining and eradication of cancer cells by protein-carrying DARPin-functionalized liposomes. *European Journal of Pharmaceutics and Biopharmaceutics*, **2018**, 130, 296-305	5.7	12
142	Comparative Evaluation of Radioiodine and Technetium-Labeled DARPin 9_29 for Radionuclide Molecular Imaging of HER2 Expression in Malignant Tumors. *Contrast Media and Molecular Imaging*, **2018**, 2018, 6930425	3.2	24
141	The Cause of ErbB2 Receptor Resistance to Downregulation. *Russian Journal of Bioorganic Chemistry*, **2018**, 44, 279-288	1	1
140	Disassembling a cancer puzzle: Cell junctions and plasma membrane as targets for anticancer therapy. *Journal of Controlled Release*, **2018**, 286, 125-136	11.7	14
139	Neuroblastoma Origin and Therapeutic Targets for Immunotherapy. *Journal of Immunology Research*, **2018**, 2018, 7394268	4.5	56
138	A Novel Approach to Anticancer Therapy: Molecular Modules Based on the Barnase:Barstar Pair for Targeted Delivery of HSP70 to Tumor Cells. *Acta Naturae*, **2018**, 10, 85-91	2.1	3
137	The Mechanism of Fluorescence Quenching of Protein Photosensitizers Based on miniSOG During Internalization of the HER2 Receptor. *Acta Naturae*, **2018**, 10, 87-94	2.1	3
136	A Novel Approach to Anticancer Therapy: Molecular Modules Based on the Barnase:Barstar Pair for Targeted Delivery of HSP70 to Tumor Cells. *Acta Naturae*, **2018**, 10, 85-91	2.1	6
135	The Mechanism of Fluorescence Quenching of Protein Photosensitizers Based on miniSOG During Internalization of the HER2 Receptor. *Acta Naturae*, **2018**, 10, 87-94	2.1	2
134	Bifunctional Recombinant Protein Agent Based on Pseudomonas Exotoxin A Fragment for Targeted Therapy of HER2-Positive Tumors **2018**, 563-572		
133	Efficiency of Bioluminescence Resonance Energy Transfer in the NanoLuc-miniSOG-Furimazine System. *Russian Journal of Bioorganic Chemistry*, **2018**, 44, 755-758	1	2
132	Upconversion nanoparticles: on the way from diagnostics to theranostics. *EPJ Web of Conferences*, **2018**, 190, 03001	0.3	
131	Death Mechanism of Breast Adenocarcinoma Cells Caused by BRET-Induced Cytotoxicity of miniSOG Depends on the Intracellular Localization of the NanoLuc-miniSOG Fusion Protein. *Doklady Biochemistry and Biophysics*, **2018**, 482, 288-291	0.8	2
130	Data on characterization of magnetic nanoparticles stabilized with fusion protein of Barstar and C-term part of Mms6. *Data in Brief*, **2018**, 21, 1659-1663	1.2	0
129	The Application of Recombinant Phototoxins 4D5scFv-miniSOG and DARPin-miniSOG to Study the HER2 Receptor Internalization. *Doklady Biochemistry and Biophysics*, **2018**, 482, 245-248	0.8	1
128	Radioactive (Y) upconversion nanoparticles conjugated with recombinant targeted toxin for synergistic nanotheranostics of cancer. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 9690-9695	11.5	46

127	Phototoxicity of flavoprotein miniSOG induced by bioluminescence resonance energy transfer in genetically encoded system NanoLuc-miniSOG is comparable with its LED-excited phototoxicity. *Journal of Photochemistry and Photobiology B: Biology*, **2018**, 188, 107-115	6.7	18
126	Synthesis of Magnetic Nanoparticles Stabilized by Magnetite-Binding Protein for Targeted Delivery to Cancer Cells. *Doklady Biochemistry and Biophysics*, **2018**, 481, 198-200	0.8	11
125	Medium throughput biochemical compound screening identifies novel agents for pharmacotherapy of neurofibromatosis type 1. *Biochimie*, **2017**, 135, 1-5	4.6	5
124	Targeting group I p21-activated kinases to control malignant peripheral nerve sheath tumor growth and metastasis. *Oncogene*, **2017**, 36, 5421-5431	9.2	24
123	Data of self-made Taq DNA polymerase prepared for screening purposes. *Data in Brief*, **2017**, 11, 546-551	1.2	1
122	Deep-penetrating photodynamic therapy with KillerRed mediated by upconversion nanoparticles. *Acta Biomaterialia*, **2017**, 51, 461-470	10.8	57
121	HER2-specific recombinant immunotoxin 4D5scFv-PE40 passes through retrograde trafficking route and forces cells to enter apoptosis. *Oncotarget*, **2017**, 8, 22048-22058	3.3	20
120	The effect of trypan blue treatment on autofluorescence of fixed cells. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2017**, 91, 917-925	4.6	23
119	Lentiviral gene delivery to plasmolipin-expressing cells using Mus caroli endogenous retrovirus envelope protein. *Biochimie*, **2017**, 142, 226-233	4.6	3
118	Cytotoxicity of targeted HER2-specific phototoxins based on flavoprotein miniSOG is determined by the rate of their internalization. *Doklady Biochemistry and Biophysics*, **2017**, 475, 256-258	0.8	5
117	Flavoprotein miniSOG BRET-induced cytotoxicity depends on its intracellular localization. *Doklady Biochemistry and Biophysics*, **2017**, 474, 228-230	0.8	10
116	CID fragmentation, H/D exchange and supermetallization of Barnase-Barstar complex. *Scientific Reports*, **2017**, 7, 6176	4.9	3
115	Synthesis, Characterization, and Selective Delivery of DARPin-Gold Nanoparticle Conjugates to Cancer Cells. *Bioconjugate Chemistry*, **2017**, 28, 2569-2574	6.3	34
114	Targeted Bifunctional Proteins and Hybrid Nanoconstructs for Cancer Diagnostics and Therapies. *Molecular Biology*, **2017**, 51, 788-803	1.2	10
113	Applications of genetically encoded photosensitizer miniSOG: from correlative light electron microscopy to immunophotosensitizing. *Journal of Biophotonics*, **2017**, 10, 338-352	3.1	38
112	Bifunctional Toxin DARP-LoPE Based on the Her2-Specific Innovative Module of a Non-Immunoglobulin Scaffold as a Promising Agent for Theranostics. *Molecular Biology*, **2017**, 51, 865-873	1.2	15
111	Spheroids of HER2-Positive Breast Adenocarcinoma for Studying Anticancer Immunotoxins In Vitro. *Acta Naturae*, **2017**, 9, 38-43	2.1	5
110	The Effect of the Targeted Recombinant Toxin DARPin-PE40 on the Dynamics of HER2-Positive Tumor Growth. *Acta Naturae*, **2017**, 9, 103-107	2.1	

109	Synthesis and Characterization of Hybrid Core-Shell Fe3O4/SiO2 Nanoparticles for Biomedical Applications. *Acta Naturae*, **2017**, 9, 58-65	2.1	7
108	Ultraviolet phototoxicity of upconversion nanoparticles illuminated with near-infrared light. *Nanoscale*, **2017**, 9, 14921-14928	7.7	26
107	Construction of the plasmid-free strain for human growth hormone production. *Biochimie*, **2016**, 128-129, 148-53	4.6	
106	Structural features of Cas2 from Thermococcus onnurineus in CRISPR-cas system type IV. *Protein Science*, **2016**, 25, 1890-7	6.3	7
105	Synthesis of magnetic silica nanomarkers with controlled physicochemical properties. *Doklady Biochemistry and Biophysics*, **2016**, 470, 335-337	0.8	
104	Riboflavin photoactivation by upconversion nanoparticles for cancer treatment. *Scientific Reports*, **2016**, 6, 35103	4.9	72
103	Study of Fibronectin Type III-Like Domains Role in Activation of gp130 Receptor. *Bulletin of Experimental Biology and Medicine*, **2016**, 161, 72-4	0.8	
102	Recombinant targeted toxin based on HER2-specific DARPin possesses a strong selective cytotoxic effect in vitro and a potent antitumor activity in vivo. *Journal of Controlled Release*, **2016**, 233, 48-56	11.7	42
101	Bioreactor-Based Tumor Tissue Engineering. *Acta Naturae*, **2016**, 8, 44-58	2.1	7
100	Flavoprotein miniSOG Cytotoxisity Can Be Induced By Bioluminescence Resonance Energy Transfer. *Acta Naturae*, **2016**, 8, 118-123	2.1	10
99	Flavoprotein miniSOG Cytotoxisity Can Be Induced By Bioluminescence Resonance Energy Transfer. *Acta Naturae*, **2016**, 8, 118-123	2.1	14
98	Upconversion nanoparticles and their hybrid assemblies for biomedical applications. *Russian Chemical Reviews*, **2016**, 85, 1277-1296	6.8	17
97	Development and investigation of recombinant immunotoxin protein 4D5scFv-mCherry-PE(40). *Doklady Biochemistry and Biophysics*, **2016**, 471, 450-453	0.8	
96	Cytotoxic effects of upconversion nanoparticles in primary hippocampal cultures. *RSC Advances*, **2016**, 6, 33656-33665	3.7	12
95	MPQ-cytometry: a magnetism-based method for quantification of nanoparticle-cell interactions. *Nanoscale*, **2016**, 8, 12764-72	7.7	39
94	Development of a recombinant immunotoxin for the immunotherapy of autoreactive lymphocytes expressing MOG-specific BCRs. *Biotechnology Letters*, **2016**, 38, 1173-80	3	3
93	Anti-HER2 phototoxin based on flavoprotein miniSOG causes the oxidative stress and necrosis of HER2-positive cancer cells. *Moscow University Biological Sciences Bulletin*, **2016**, 71, 14-18	0.5	1
92	Mechanism of the cytotoxic action of immunophototoxin 4D5scFV-miniSOG on HER2/neu-positive cancer cells. *Doklady Biochemistry and Biophysics*, **2015**, 460, 16-9	0.8	3

91	A comprehensive study of interactions between lectins and glycoproteins for the development of effective theranostic nanoagents. *Doklady Biochemistry and Biophysics*, **2015**, 464, 315-8	0.8	10
90	Chemical Polysialylation of Recombinant Human Proteins. *Methods in Molecular Biology*, **2015**, 1321, 389-404	1.4	9
89	A new anticancer toxin based on HER2/neu-specific DARPin and photoactive flavoprotein miniSOG. *Biochimie*, **2015**, 118, 116-22	4.6	39
88	Submicron polyacrolein particles in situ embedded with upconversion nanoparticles for bioassay. *Nanoscale*, **2015**, 7, 1709-17	7.7	28
87	Man-made antibodies and immunoconjugates with desired properties: function optimization using structural engineering. *Russian Chemical Reviews*, **2015**, 84, 1-26	6.8	46
86	Far-red fluorescent cell line for preclinical study of HER2-targeted agents. *Doklady Biochemistry and Biophysics*, **2015**, 465, 410-2	0.8	1
85	Complexes of magnetic nanoparticles and scFv antibodies for targeting and visualizing cancer cells **2015**,		2
84	Cytotoxicity and non-specific cellular uptake of bare and surface-modified upconversion nanoparticles in human skin cells. *Nano Research*, **2015**, 8, 1546-1562	10	59
83	Specific Depletion of Myelin-Reactive B Cells via BCR-Targeting. *Acta Naturae*, **2015**, 7, 74-9	2.1	1
82	Internalization and Recycling of the HER2 Receptor on Human Breast Adenocarcinoma Cells Treated with Targeted Phototoxic Protein DARPinminiSOG. *Acta Naturae*, **2015**, 7, 126-32	2.1	14
81	Recombinant Immunotoxin 4D5scFv-PE40 for Targeted Therapy of HER2-Positive Tumors. *Acta Naturae*, **2015**, 7, 93-6	2.1	2
80	A novel far-red fluorescent xenograft model of ovarian carcinoma for preclinical evaluation of HER2-targeted immunotoxins. *Oncotarget*, **2015**, 6, 30919-28	3.3	22
79	Internalization and Recycling of the HER2 Receptor on Human Breast Adenocarcinoma Cells Treated with Targeted Phototoxic Protein DARPinminiSOG. *Acta Naturae*, **2015**, 7, 126-132	2.1	18
78	Recombinant Immunotoxin 4D5scFv-PE40 for Targeted Therapy of HER2-Positive Tumors. *Acta Naturae*, **2015**, 7, 93-96	2.1	4
77	Biocomputing based on particle disassembly. *Nature Nanotechnology*, **2014**, 9, 716-22	28.7	97
76	Somatostatin and its 2A receptor in dorsal root ganglia and dorsal horn of mouse and human: expression, trafficking and possible role in pain. *Molecular Pain*, **2014**, 10, 12	3.4	32
75	Novel recombinant anti-HER2/neu immunotoxin: design and antitumor efficiency. *Biochemistry (Moscow)*, **2014**, 79, 1376-81	2.9	13
74	Highly specific hybrid protein DARPin-mCherry for fluorescent visualization of cells overexpressing tumor marker HER2/neu. *Biochemistry (Moscow)*, **2014**, 79, 1391-6	2.9	14

73	Specific visualization of tumor cells using upconversion nanophosphors. *Acta Naturae*, **2014**, 6, 48-53	2.1	5
72	Excessive Labeling Technique Provides a Highly Sensitive Fluorescent Probe for Real-time Monitoring of Biodegradation of Biopolymer Pharmaceuticals in vivo. *Acta Naturae*, **2014**, 6, 54-9	2.1	1
71	Specific Visualization of Tumor Cells Using Upconversion Nanophosphors. *Acta Naturae*, **2014**, 6, 48-53	2.1	8
70	Polyethyleneimine-coated magnetic nanoparticles for cell labeling and modification. *Doklady Biochemistry and Biophysics*, **2013**, 452, 245-7	0.8	0
69	Immunocytochemical visualization of P185HER2 receptor using antibodies fused with dibarnase and conjugate of barstar with colloidal gold. *Molecular Biology*, **2013**, 47, 701-711	1.2	1
68	Biodegradation of Magnetic Nanoparticles in Mouse Liver From Combined Analysis of Mössbauer and Magnetization Data. *IEEE Transactions on Magnetics*, **2013**, 49, 394-397	2	23
67	Biodegradation of Magnetic Nanoparticles in Rat Brain Studied by Mössbauer Spectroscopy. *IEEE Transactions on Magnetics*, **2013**, 49, 436-439	2	8
66	Denaturation-resistant bifunctional colloidal superstructures assembled via the proteinaceous barnase-barstar interface. *ACS Nano*, **2013**, 7, 950-61	16.7	28
65	A modular design of low-background bioassays based on a high-affinity molecular pair barstar:barnase. *Proteomics*, **2013**, 13, 1437-43	4.8	11
64	Luminescent Nanomaterials for Molecular-Specific Cellular Imaging **2013**, 563-596		2
63	Feasibility study of the optical imaging of a breast cancer lesion labeled with upconversion nanoparticle biocomplexes. *Journal of Biomedical Optics*, **2013**, 18, 76004	3.5	58
62	Genetically encoded immunophotosensitizer 4D5scFv-miniSOG is a highly selective agent for targeted photokilling of tumor cells in vitro. *Theranostics*, **2013**, 3, 831-40	12.1	64
61	Self-assembly of magnetic and fluorescent colloidal constructs based on protein-protein interactions. *Doklady Biochemistry and Biophysics*, **2012**, 445, 210-2	0.8	1
60	Application of fusion protein 4D5 scFv-dibarnase:barstar-gold complex for studying P185HER2 receptor distribution in human cancer cells. *Biochimie*, **2012**, 94, 1833-6	4.6	15
59	Passive and active targeting of quantum dots for whole-body fluorescence imaging of breast cancer xenografts. *Journal of Biophotonics*, **2012**, 5, 860-7	3.1	25
58	Self-assembling complexes of quantum dots and scFv antibodies for cancer cell targeting and imaging. *PLoS ONE*, **2012**, 7, e48248	3.7	24
57	ERBB oncogene proteins as targets for monoclonal antibodies. *Biochemistry (Moscow)*, **2012**, 77, 227-45	2.9	35
56	Study of Nature of Paramagnetic Doublet in Mössbauer Spectra of Mice Liver Using External Magnetic Field. *Solid State Phenomena*, **2012**, 190, 729-732	0.4	2

55	Pharmacological characterization of a recombinant, fluorescent somatostatin receptor agonist. *Bioconjugate Chemistry*, **2011**, 22, 1768-75	6.3	11
54	Expression of humanized anti-Her2/neu single-chain IgG1-like antibody in mammary glands of transgenic mice. *Biochimie*, **2011**, 93, 628-30	4.6	6
53	Submicron polymer particles containing fluorescent semiconductor nanocrystals CdSe/ZnS for bioassays. *Nanomedicine*, **2011**, 6, 195-209	5.6	27
52	Barstar:barnase a versatile platform for colloidal diamond bioconjugation. *Journal of Materials Chemistry*, **2011**, 21, 65-68		27
51	Bioanalytical fluorescent reagents based on polyacrolein-containing particles labeled with semiconductor CdSe/ZnS nanocrystals. *Doklady Biochemistry and Biophysics*, **2011**, 439, 151-4	0.8	1
50	Fluorescent nanodiamond bioconjugates on the base of barnase:barstar module. *Doklady Biochemistry and Biophysics*, **2011**, 440, 231-3	0.8	1
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