Sergey Deyev

List of Publications by Year in descending order

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228	4,982	94433	144013
papers	citations	37 h-index	57 g-index

236	236	236	4271
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Design of multivalent complexes using the barnaseÂ·barstar module. Nature Biotechnology, 2003, 21, 1486-1492.	17.5	177
2	Targeting cancer cells by using an antireceptor antibody-photosensitizer fusion protein. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 9221-9225.	7.1	135
3	Biocomputing based on particle disassembly. Nature Nanotechnology, 2014, 9, 716-722.	31.5	132
4	Nanoparticle-based drug delivery via RBC-hitchhiking for the inhibition of lung metastases growth. Nanoscale, 2019, 11, 1636-1646.	5.6	126
5	Multivalency: the hallmark of antibodies used for optimization of tumor targeting by design. BioEssays, 2008, 30, 904-918.	2.5	104
6	Enhancement of the blood-circulation time and performance of nanomedicines via the forced clearance of erythrocytes. Nature Biomedical Engineering, 2020, 4, 717-731.	22.5	103
7	Neuroblastoma Origin and Therapeutic Targets for Immunotherapy. Journal of Immunology Research, 2018, 2018, 1-25.	2.2	100
8	Protein-assisted self-assembly of multifunctional nanoparticles. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5827-5832.	7.1	96
9	Riboflavin photoactivation by upconversion nanoparticles for cancer treatment. Scientific Reports, 2016, 6, 35103.	3.3	92
10	Plants with genetically encoded autoluminescence. Nature Biotechnology, 2020, 38, 944-946.	17.5	89
11	Feasibility study of the optical imaging of a breast cancer lesion labeled with upconversion nanoparticle biocomplexes. Journal of Biomedical Optics, 2013, 18, 076004.	2.6	84
12	Genetically Encoded Immunophotosensitizer 4D5scFv-miniSOG is a Highly Selective Agent for Targeted Photokilling of Tumor Cells in Vitro. Theranostics, 2013, 3, 831-840.	10.0	79
13	Deep-penetrating photodynamic therapy with KillerRed mediated by upconversion nanoparticles. Acta Biomaterialia, 2017, 51, 461-470.	8.3	77
14	Cytotoxicity and non-specific cellular uptake of bare and surface-modified upconversion nanoparticles in human skin cells. Nano Research, 2015, 8, 1546-1562.	10.4	75
15	Barnase as a New Therapeutic Agent Triggering Apoptosis in Human Cancer Cells. PLoS ONE, 2008, 3, e2434.	2.5	74
16	Reciprocal recombination products of VK-JKjoining reactions in human lymphoid cell lines. Nucleic Acids Research, 1987, 15, 1-14.	14.5	69
17	Modern Technologies for Creating Synthetic Antibodies for Clinical Application. Acta Naturae, 2009, 1, 32-50.	1.7	66
18	Man-made antibodies and immunoconjugates with desired properties: function optimization using structural engineering. Russian Chemical Reviews, 2015, 84, 1-26.	6.5	61

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19	Radioactive (⁹⁰ 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.	7.1	58
20	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.	9.9	57
21	Nuclear nanomedicine using Si nanoparticles as safe and effective carriers of 188Re radionuclide for cancer therapy. Scientific Reports, 2019, 9, 2017.	3.3	53
22	Antitumor activity and toxicity of anti-HER2 immunoRNase scFv 4D5-dibarnase in mice bearing human breast cancer xenografts. Investigational New Drugs, 2011, 29, 22-32.	2.6	52
23	Applications of genetically encoded photosensitizer miniSOG: from correlative light electron microscopy to immunophotosensitizing. Journal of Biophotonics, 2017, 10, 338-352.	2.3	52
24	Long-Term Fate of Magnetic Particles in Mice: A Comprehensive Study. ACS Nano, 2021, 15, 11341-11357.	14.6	50
25	A new anticancer toxin based on HER2/neu-specific DARPin and photoactive flavoprotein miniSOG. Biochimie, 2015, 118, 116-122.	2.6	49
26	MPQ-cytometry: a magnetism-based method for quantification of nanoparticleâ€“cell interactions. Nanoscale, 2016, 8, 12764-12772.	5.6	48
27	ERBB oncogene proteins as targets for monoclonal antibodies. Biochemistry (Moscow), 2012, 77, 227-245.	1.5	47
28	Fast processes of nanoparticle blood clearance: Comprehensive study. Journal of Controlled Release, 2020, 326, 181-191.	9.9	46
29	Laser-synthesized TiN nanoparticles for biomedical applications: Evaluation of safety, biodistribution and pharmacokinetics. Materials Science and Engineering C, 2021, 120, 111717.	7.3	44
30	In vivo blockade of mononuclear phagocyte system with solid nanoparticles: Efficiency and affecting factors. Journal of Controlled Release, 2021, 330, 111-118.	9.9	44
31	DARPins: Promising Scaffolds for Theranostics. Acta Naturae, 2019, 11, 42-53.	1.7	44
32	Dual Regioselective Targeting the Same Receptor in Nanoparticle-Mediated Combination Immuno/Chemotherapy for Enhanced Image-Guided Cancer Treatment. ACS Nano, 2020, 14, 12781-12795.	14.6	43
33	Design of Targeted B Cell Killing Agents. PLoS ONE, 2011, 6, e20991.	2.5	41
34	Modern Technologies for Creating Synthetic Antibodies for Clinical application. Acta Naturae, 2009, 1, 32-50.	1.7	41
35	Denaturation-Resistant Bifunctional Colloidal Superstructures Assembled via the Proteinaceous Barnaseâ€“Barstar Interface. ACS Nano, 2013, 7, 950-961.	14.6	40
36	Versatile Platform for Nanoparticle Surface Bioengineering Based on SiO₂-Binding Peptide and Proteinaceous Barnase*Barstar Interface. ACS Applied Materials & Interfaces, 2018, 10, 17437-17447.	8.0	40

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37	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, 1744-8069-10-12.	2.1	39
38	Submicron polymer particles containing fluorescent semiconductor nanocrystals CdSe/ZnS for bioassays. Nanomedicine, 2011, 6, 195-209.	3.3	37
39	Synthesis, Characterization, and Selective Delivery of DARPinâ€“Gold Nanoparticle Conjugates to Cancer Cells. Bioconjugate Chemistry, 2017, 28, 2569-2574.	3.6	37
40	A new vector for controllable expression of an anti-HER2/neu mini-antibody-barnase fusion protein in HEK 293T cells. Gene, 2006, 366, 97-103.	2.2	36
41	Comparative Evaluation of Two DARPin Variants: Effect of Affinity, Size, and Label on Tumor Targeting Properties. Molecular Pharmaceutics, 2019, 16, 995-1008.	4.6	35
42	Expression of single-chain antibody-barstar fusion in plants. Biochimie, 2007, 89, 31-38.	2.6	34
43	Barstar:barnase â€” a versatile platform for colloidal diamond bioconjugation. Journal of Materials Chemistry, 2011, 21, 65-68.	6.7	34
44	Optimal composition and position of histidine-containing tags improves biodistribution of 99mTc-labeled DARPin G3. Scientific Reports, 2019, 9, 9405.	3.3	34
45	Dual Targeting of Cancer Cells with DARPin-Based Toxins for Overcoming Tumor Escape. Cancers, 2020, 12, 3014.	3.7	34
46	Submicron polyacrolein particles in situ embedded with upconversion nanoparticles for bioassay. Nanoscale, 2015, 7, 1709-1717.	5.6	33
47	Passive and active targeting of quantum dots for wholeâ€body fluorescence imaging of breast cancer xenografts. Journal of Biophotonics, 2012, 5, 860-867.	2.3	32
48	Self-Assembling Complexes of Quantum Dots and scFv Antibodies for Cancer Cell Targeting and Imaging. PLoS ONE, 2012, 7, e48248.	2.5	32
49	A novel far-red fluorescent xenograft model of ovarian carcinoma for preclinical evaluation of HER2-targeted immunotoxins. Oncotarget, 2015, 6, 30919-30928.	1.8	32
50	Fusion of the antiferritin antibody VL domain to barnase results in enhanced solubility and altered pH stability. Protein Engineering, Design and Selection, 2004, 17, 85-93.	2.1	31
51	Fluorescent immunolabeling of cancer cells by quantum dots and antibody scFv fragment. Journal of Biomedical Optics, 2009, 14, 021004.	2.6	31
52	Antiferritin Single-Chain Fv Fragment Is a Functional Protein with Properties of a Partially Structured State:Â Comparison with the Completely Folded VLDomainâ€. Biochemistry, 2000, 39, 8047-8057.	2.5	30
53	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.	1.5	30
54	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, 1-11.	0.8	30

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55	Phase I Trial of ^{99m}Tc-(HE)₃-G3, a DARPin-Based Probe for Imaging of HER2 Expression in Breast Cancer. Journal of Nuclear Medicine, 2022, 63, 528-535.	5.0	29
56	Targeting group I p21-activated kinases to control malignant peripheral nerve sheath tumor growth and metastasis. Oncogene, 2017, 36, 5421-5431.	5.9	28
57	Ultraviolet phototoxicity of upconversion nanoparticles illuminated with near-infrared light. Nanoscale, 2017, 9, 14921-14928.	5.6	28
58	Internalization and Recycling of the HER2 Receptor on Human Breast Adenocarcinoma Cells Treated with Targeted Phototoxic Protein DARPinminiSOG. Acta Naturae, 2015, 7, 126-132.	1.7	28
59	A plasmid vector with positive selection and directional cloning based on a conditionally lethal gene. Gene, 1996, 169, 131-132.	2.2	27
60	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.	3.8	27
61	Preclinical Study of Biofunctional Polymer-Coated Upconversion Nanoparticles. Toxicological Sciences, 2019, 170, 123-132.	3.1	27
62	Photothermal Therapy with HER2-Targeted Silver Nanoparticles Leading to Cancer Remission. Pharmaceutics, 2022, 14, 1013.	4.5	27
63	Biodegradation of Magnetic Nanoparticles in Mouse Liver From Combined Analysis of MÃ¶ssbauer and Magnetization Data. IEEE Transactions on Magnetics, 2013, 49, 394-397.	2.1	26
64	Quantum Dots for Molecular Diagnostics of Tumors. Acta Naturae, 2011, 3, 29-47.	1.7	26
65	Genetically encoded BRET-activated photodynamic therapy for the treatment of deep-seated tumors. Light: Science and Applications, 2022, 11, 38.	16.6	26
66	HER2-Specific Targeted Toxin DARPin-LoPE: Immunogenicity and Antitumor Effect on Intraperitoneal Ovarian Cancer Xenograft Model. International Journal of Molecular Sciences, 2019, 20, 2399.	4.1	25
67	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.	2.3	25
68	RNA Sequencing-Based Identification of Ganglioside GD2-Positive Cancer Phenotype. Biomedicines, 2020, 8, 142.	3.2	25
69	PLGA Nanoparticles Decorated with Anti-HER2 Affibody for Targeted Delivery and Photoinduced Cell Death. Molecules, 2021, 26, 3955.	3.8	25
70	Near-infrared activated cyanine dyes as agents for photothermal therapy and diagnosis of tumors. Acta Naturae, 2020, 12, 102-113.	1.7	25
71	New Frontiers in Diagnosis and Therapy of Circulating Tumor Markers in Cerebrospinal Fluid In Vitro and In Vivo. Cells, 2019, 8, 1195.	4.1	23
72	Comparative Evaluation of Engineered Polypeptide Scaffolds in HER2-Targeting Magnetic Nanocarrier Delivery. ACS Omega, 2021, 6, 16000-16008.	3.5	23

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73	HER2-specific recombinant immunotoxin 4D5scFv-PE40 passes through retrograde trafficking route and forces cells to enter apoptosis. Oncotarget, 2017, 8, 22048-22058.	1.8	22
74	Multimerization through Pegylation Improves Pharmacokinetic Properties of scFv Fragments of GD2-Specific Antibodies. Molecules, 2019, 24, 3835.	3.8	22
75	Novel recombinant anti-HER2/neu immunotoxin: Design and antitumor efficiency. Biochemistry (Moscow), 2014, 79, 1376-1381.	1.5	21
76	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, 219.	4.5	21
77	Flavoprotein miniSOG Cytotoxicity Can Be Induced By Bioluminescence Resonance Energy Transfer. Acta Naturae, 2016, 8, 118-123.	1.7	21
78	Highly specific hybrid protein DARPin-mCherry for fluorescent visualization of cells overexpressing tumor marker HER2/neu. Biochemistry (Moscow), 2014, 79, 1391-1396.	1.5	20
79	Upconversion nanoparticles and their hybrid assemblies for biomedical applications. Russian Chemical Reviews, 2016, 85, 1277-1296.	6.5	20
80	A Highly Specific Substrate for NanoLUC Luciferase Furimazine Is Toxic in vitro and in vivo. Russian Journal of Bioorganic Chemistry, 2018, 44, 225-228.	1.0	20
81	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.	7.5	20
82	Antiferritin single-chain antibody: a functional protein with incomplete folding?. FEBS Letters, 1998, 441, 458-462.	2.8	19
83	Visualization of cancer cells by means of the fluorescent EGFP-barnase protein. Doklady Biochemistry and Biophysics, 2007, 414, 120-123.	0.9	19
84	Application of fusion protein 4D5 scFv-dibarnase:barstarâ€“gold complex for studying P185HER2 receptor distribution in human cancer cells. Biochimie, 2012, 94, 1833-1836.	2.6	19
85	Disassembling a cancer puzzle: Cell junctions and plasma membrane as targets for anticancer therapy. Journal of Controlled Release, 2018, 286, 125-136.	9.9	19
86	Comparison of tumorâ€˜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.	3.3	19
87	Targeted nuclear medicine. Seek and destroy. Russian Chemical Reviews, 2022, 91, .	6.5	19
88	Magnetic Nanoparticle Degradation in vivo Studied by Mol̂ssbauer Spectroscopy. , 2010, , .		18
89	Cytotoxic effects of upconversion nanoparticles in primary hippocampal cultures. RSC Advances, 2016, 6, 33656-33665.	3.6	18
90	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.	1.3	18

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91	DARPin_9-29-Targeted Mini Gold Nanorods Specifically Eliminate HER2-Overexpressing Cancer Cells. ACS Applied Materials & Interfaces, 2019, 11, 34645-34651.	8.0	18
92	Indirect Radioiodination of DARPin G3 Using N-succinimidyl-Para-Iodobenzoate Improves the Contrast of HER2 Molecular Imaging. International Journal of Molecular Sciences, 2019, 20, 3047.	4.1	18
93	Phaseâ€Responsive Fourier Nanotransducers for Probing 2D Materials and Functional Interfaces. Advanced Functional Materials, 2019, 29, 1902692.	14.9	18
94	Targeting Cancer Cell Tight Junctions Enhances PLGA-Based Photothermal Sensitizersâ€™ Performance In Vitro and In Vivo. Pharmaceutics, 2022, 14, 43.	4.5	18
95	Synthesis of Magnetic Nanoparticles Stabilized by Magnetite-Binding Protein for Targeted Delivery to Cancer Cells. Doklady Biochemistry and Biophysics, 2018, 481, 198-200.	0.9	17
96	Selective staining and eradication of cancer cells by protein-carrying DARPin-functionalized liposomes. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 130, 296-305.	4.3	17
97	Resolution and contrast enhancement of laser-scanning multiphoton microscopy using thulium-doped upconversion nanoparticles. Nano Research, 2019, 12, 2933-2940.	10.4	17
98	Feasibility of Imaging EpCAM Expression in Ovarian Cancer Using Radiolabeled DARPin Ec1. International Journal of Molecular Sciences, 2020, 21, 3310.	4.1	17
99	Antigenâ€Specific Stimulation and Expansion of CARâ€T Cells Using Membrane Vesicles as Target Cell Surrogates. Small, 2021, 17, e2102643.	10.0	17
100	DARPin_9-29-Targeted Gold Nanorods Selectively Suppress HER2-Positive Tumor Growth in Mice. Cancers, 2021, 13, 5235.	3.7	17
101	Artificial Scaffold PolypeptidesAs an Efficient Tool for the Targeted Delivery of Nanostructures In Vitro and In Vivo. , 2022, 14, 54-72.		17
102	Laser Synthesized Core-Satellite Fe-Au Nanoparticles for Multimodal In Vivo Imaging and In Vitro Photothermal Therapy. Pharmaceutics, 2022, 14, 994.	4.5	17
103	Ribonuclease-charged vector for facile direct cloning with positive selection. Molecular Genetics and Genomics, 1998, 259, 379-382.	2.4	16
104	A new phagemid vector for positive selection of recombinants based on a conditionally lethal barnase gene. FEBS Letters, 1999, 452, 351-354.	2.8	16
105	UCNP-based Photoluminescent Nanomedicines for Targeted Imaging and Theranostics of Cancer. Molecules, 2020, 25, 4302.	3.8	16
106	Delivery of Barnase to Cells in Liposomes Functionalized by Her2-Specific DARPin Module. Russian Journal of Bioorganic Chemistry, 2020, 46, 1156-1161.	1.0	16
107	On the prevention of kidney uptake of radiolabeled DARPins. EJNMMI Research, 2020, 10, 7.	2.5	16
108	Laser-Ablative Synthesis of Ultrapure Magneto-Plasmonic Core-Satellite Nanocomposites for Biomedical Applications. Nanomaterials, 2022, 12, 649.	4.1	16

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109	Flavoprotein miniSOG BRET-induced cytotoxicity depends on its intracellular localization. Doklady Biochemistry and Biophysics, 2017, 474, 228-230.	0.9	15
110	Natural and Designed Toxins for Precise Therapy: Modern Approaches in Experimental Oncology. International Journal of Molecular Sciences, 2021, 22, 4975.	4.1	15
111	A comprehensive study of interactions between lectins and glycoproteins for the development of effective theranostic nanoagents. Doklady Biochemistry and Biophysics, 2015, 464, 315-318.	0.9	14
112	Magnetometry based method for investigation of nanoparticle clearance from circulation in a liver perfusion model. Nanotechnology, 2019, 30, 105101.	2.6	14
113	â€œGreenâ€•Synthesis of Cytotoxic Silver Nanoparticles Based on Secondary Metabolites of Lavandula Angustifolia Mill.. Acta Naturae, 2019, 11, 47-53.	1.7	14
114	Direct photoacoustic measurement of silicon nanoparticle degradation promoted by a polymer coating. Chemical Engineering Journal, 2022, 430, 132860.	12.7	14
115	Internalization and Recycling of the HER2 Receptor on Human Breast Adenocarcinoma Cells Treated with Targeted Phototoxic Protein DARPinminiSOG. Acta Naturae, 2015, 7, 126-32.	1.7	14
116	Laser-ablative aqueous synthesis and characterization of elemental boron nanoparticles for biomedical applications. Scientific Reports, 2022, 12, .	3.3	14
117	Targeted Bifunctional Proteins and Hybrid Nanoconstructs for Cancer Diagnostics and Therapies. Molecular Biology, 2017, 51, 788-803.	1.3	13
118	Laser-Ablative Synthesis of Isotope-Enriched Samarium Oxide Nanoparticles for Nuclear Nanomedicine. Nanomaterials, 2020, 10, 69.	4.1	13
119	Cloning of an alkaline phosphatase gene from the moderately thermophilic bacterium Meiothermus ruber and characterization of the recombinant enzyme. Molecular Genetics and Genomics, 2003, 270, 87-93.	2.1	12
120	Force spectroscopy of barnaseâ€“barstar single molecule interaction. Journal of Molecular Recognition, 2010, 23, 583-588.	2.1	12
121	Pharmacological Characterization of a Recombinant, Fluorescent Somatostatin Receptor Agonist. Bioconjugate Chemistry, 2011, 22, 1768-1775.	3.6	12
122	A modular design of lowâ€background bioassays based on a highâ€affinity molecular pair barstar:barnase. Proteomics, 2013, 13, 1437-1443.	2.2	12
123	Near-Infrared Molecular Imaging of Glioblastoma by MiltuximabÂ®-IRDye800CW as a Potential Tool for Fluorescence-Guided Surgery. Cancers, 2020, 12, 984.	3.7	12
124	Specific Visualization of Tumor Cells Using Upconversion Nanophosphors. Acta Naturae, 2014, 6, 48-53.	1.7	12
125	Location of exposed and buried cysteine residues in the polypeptide chain of aspartate aminotransferase. FEBS Letters, 1973, 35, 322-326.	2.8	11
126	Chemical Polysialylation of Recombinant Human Proteins. Methods in Molecular Biology, 2015, 1321, 389-404.	0.9	11

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127	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.	6.4	11
128	Radionuclide Molecular Imaging of EpCAM Expression in Triple-Negative Breast Cancer Using the Scaffold Protein DARPin Ec1. Molecules, 2020, 25, 4719.	3.8	11
129	Flavoprotein miniSOG Cytotoxisity Can Be Induced By Bioluminescence Resonance Energy Transfer. Acta Naturae, 2016, 8, 118-123.	1.7	11
130	Production of recombinant antibodies in lymphoid and non-lymphoid cells. FEBS Letters, 1993, 330, 111-113.	2.8	10
131	Spin Label Method Reveals Barnase-Barstar Interaction: A Temperature and Viscosity Dependence Approach. Journal of Biomolecular Structure and Dynamics, 2008, 25, 525-534.	3.5	10
132	Structural features of Cas2 from Thermococcus onnurineus in CRISPRâ€cas system type IV. Protein Science, 2016, 25, 1890-1897.	7.6	10
133	Bioreactor-Based Tumor Tissue Engineering. Acta Naturae, 2016, 8, 44-58.	1.7	10
134	Isolation of Circulating Tumor Cells from Seminal Fluid of Patients with Prostate Cancer Using Inertial Microfluidics. Cancers, 2022, 14, 3364.	3.7	10
135	Biodegradation of Magnetic Nanoparticles in Rat Brain Studied by MÃ¶ssbauer Spectroscopy. IEEE Transactions on Magnetics, 2013, 49, 436-439.	2.1	9
136	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, 1129.	3.7	9
137	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.	1.7	9
138	Imaging of human ovarian cancer SKOV-3 cells by quantum dot bioconjugates. Doklady Biochemistry and Biophysics, 2010, 430, 41-44.	0.9	8
139	Expression of humanized anti-Her2/neu single-chain IgG1-like antibody in mammary glands of transgenic mice. Biochimie, 2011, 93, 628-630.	2.6	8
140	Imaging-Guided Therapy Simultaneously Targeting HER2 and EpCAM with Trastuzumab and EpCAM-Directed Toxin Provides Additive Effect in Ovarian Cancer Model. Cancers, 2021, 13, 3939.	3.7	8
141	Synthesis and Characterization of Hybrid Core-Shell Fe3O4/SiO2 Nanoparticles for Biomedical Applications. Acta Naturae, 2017, 9, 58-65.	1.7	8
142	Two-step modification of aspartate aminotransferase with 1,5-difluoro-2,4-dinitrobenzene Cross-link localization. Biochimica Et Biophysica Acta (BBA) - Protein Structure, 1978, 534, 358-367.	1.7	7
143	Partially structured state of the functional VH domain of the mouse anti-ferritin antibody F11. FEBS Letters, 2002, 518, 177-182.	2.8	7
144	Expression of the chimeric IgE gene in cell culture and in various mouse tissues. Biochimie, 2004, 86, 939-943.	2.6	7

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145	Medium throughput biochemical compound screening identifies novel agents for pharmacotherapy of neurofibromatosis type 1. Biochimie, 2017, 135, 1-5.	2.6	7
146	Multifunctional Complexes Based on Photoluminescent Upconversion Nanoparticles for Theranostics of the HER2-Positive Tumors. Doklady Biochemistry and Biophysics, 2020, 491, 73-76.	0.9	7
147	Barnase encapsulation into submicron porous CaCO₃ particles: studies of loading and enzyme activity. Journal of Materials Chemistry B, 2021, 9, 8823-8831.	5.8	7
148	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, 3589.	3.7	7
149	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.	1.7	7
150	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.	1.9	7
151	3D Models of Cellular Spheroids As a Universal Tool for Studying the Cytotoxic Properties of Anticancer Compounds In Vitro. , 2022, 14, 92-100.		7
152	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.	0.9	6
153	Recombinant Immunotoxin 4D5scFv-PE40 for Targeted Therapy of HER2-Positive Tumors. Acta Naturae, 2015, 7, 93-96.	1.7	6
154	Specific visualization of tumor cells using upconversion nanophosphors. Acta Naturae, 2014, 6, 48-53.	1.7	6
155	Effect of Surface Modification of Multifunctional Nanocomposite Drug Delivery Carriers with DARPin on Their Biodistribution In Vitro and In Vivo. ACS Applied Bio Materials, 0, , .	4.6	6
156	Expression of immunoglobulin genes tandem in eukaryotic cells under the control of T7 bacteriophage RNA polymerase. Applied Biochemistry and Biotechnology, 1994, 47, 143-155.	2.9	5
157	Recombinant barnase as a label in ELISA. FEBS Letters, 1996, 388, 99-102.	2.8	5
158	Biosynthesis of the scFv Antibody to Human Ferritin in Plant and Bacterial Producers. Molecular Biology, 2003, 37, 780-786.	1.3	5
159	Mechanism of the cytotoxic action of immunophototoxin 4D5scFV-miniSOG on HER2/neu-positive cancer cells. Doklady Biochemistry and Biophysics, 2015, 460, 16-19.	0.9	5
160	Development of a recombinant immunotoxin for the immunotherapy of autoreactive lymphocytes expressing MOG-specific BCRs. Biotechnology Letters, 2016, 38, 1173-1180.	2.2	5
161	CID fragmentation, H/D exchange and supermetallization of Barnase-Barstar complex. Scientific Reports, 2017, 7, 6176.	3.3	5
162	Death Mechanism of Breast Adenocarcinoma Cells Caused by BRET-Induced Cytotoxicity of miniSOG Depends on the Intracellular Localization of the NanoLucâ€“miniSOG Fusion Protein. Doklady Biochemistry and Biophysics, 2018, 482, 288-291.	0.9	5

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163	The Mechanism of Fluorescence Quenching of Protein Photosensitizers Based on miniSOG During Internalization of the HER2 Receptor. Acta Naturae, 2018, 10, 87-94.	1.7	5
164	Barnase*Barstar-guided two-step targeting approach for drug delivery to tumor cells in vivo. Journal of Controlled Release, 2021, 340, 200-208.	9.9	5
165	Spheroids of HER2-Positive Breast Adenocarcinoma for Studying Anticancer Immunotoxins In Vitro. Acta Naturae, 2017, 9, 38-43.	1.7	5
166	Barnase-Barstar Pair: Contemporary Application in Cancer Research and Nanotechnology. Molecules, 2021, 26, 6785.	3.8	5
167	Eukaryotic expression vectors and immunoconjugates for cancer therapy. Biochemistry (Moscow), 2006, 71, 597-606.	1.5	4
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