Igor I Agapov

List of Publications by Year
in descending order

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81 papers	1,252 citations	393982 19 h-index	433756 31 g-index
84 all docs	84 docs citations	84 times ranked	1228 citing authors

#	Article	IF	Citations
1	Light-Triggered Liposomal Release: Membrane Permeabilization by Photodynamic Action. Langmuir, 2010, 26, 5726-5733.	1.6	93
2	Tissue regeneration inÂvivo within recombinant spidroin 1 scaffolds. Biomaterials, 2012, 33, 3887-3898.	5.7	69
3	Preliminary crystallographic characterization of ricin agglutinin. , 1997, 28, 586-589.		68
4	Crystal structure at 3 A of mistletoe lectin I, a dimeric type-II ribosome-inactivating protein, complexed with galactose. FEBS Journal, 2003, 270, 2739-2749.	0.2	54
5	In vitro and in vivo biocompatibility studies of a recombinant analogue of spidroin 1 scaffolds. Journal of Biomedical Materials Research - Part A, 2011, 96A, 125-131.	2.1	44
6	Mistletoe lectin I forms a double trefoil structure. FEBS Letters, 1998, 431, 367-370.	1.3	40
7	Three-dimensional scaffold made from recombinant spider silk protein for tissue engineering. Doklady Biochemistry and Biophysics, 2009, 426, 127-130.	0.3	40
8	Immunotoxins containing A-chain of mistletoe lectin I are more active than immunotoxins with ricin A-chain. FEBS Letters, 1996, 392, 166-168.	1.3	36
9	Endosomal ricin transport: involvement of Rab4- and Rab5-positive compartments. Histochemistry and Cell Biology, 2004, 121, 429-39.	0.8	35
10	Differences in endocytosis and intracellular sorting of ricin and viscumin in 3T3 cells. European Journal of Cell Biology, 2002, 81, 529-538.	1.6	33
11	Novel Photosensitizers Trigger Rapid Death of Malignant Human Cells and Rodent Tumor Transplants via Lipid Photodamage and Membrane Permeabilization. PLoS ONE, 2010, 5, e12717.	1.1	33
12	Novel Biodegradable Polymeric Microparticles Facilitate Scarless Wound Healing by Promoting Re-epithelialization and Inhibiting Fibrosis. Frontiers in Immunology, 2018, 9, 2851.	2.2	30
13	Mistletoe lectin dissociates into catalytic and binding subunits before translocation across the membrane to the cytoplasm. FEBS Letters, 1999, 452, 211-214.	1.3	29
14	Combined Scanning Probe Nanotomography and Optical Microspectroscopy: A Correlative Technique for 3D Characterization of Nanomaterials. ACS Nano, 2013, 7, 8953-8962.	7.3	29
15	Membrane fusion mediated by ricin and viscumin. Biochimica Et Biophysica Acta - Biomembranes, 1998, 1371, 11-16.	1.4	26
16	Mistletoe lectin A-chain unfolds during the intracellular transport. FEBS Letters, 1999, 464, 63-66.	1.3	25
17	Engineering of Optically Encoded Microbeads with FRETâ€Free Spatially Separated Quantumâ€Dot Layers for Multiplexed Assays. ChemPhysChem, 2017, 18, 970-979.	1.0	23
18	Functional Analysis of the Engineered Cardiac Tissue Grown on Recombinant Spidroin Fiber Meshes. PLoS ONE, 2015, 10, e0121155.	1.1	22

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19	Effects of fibroin microcarriers on inflammation and regeneration of deep skin wounds in mice. Biochemistry (Moscow), 2016, 81, 1251-1260.	0.7	22
20	Membrane destabilization by ricin. European Biophysics Journal, 2004, 33, 572-579.	1.2	20
21	Correlation between lipid deposition, immune-inflammatory cell content and MHC class II expression in diffuse intimal thickening of the human aorta. Atherosclerosis, 2011, 219, 171-183.	0.4	20
22	Photodynamic activity of the boronated chlorin e6 amide in artificial and cellular membranes. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 793-801.	1.4	20
23	Bioimaging Tools Based on Polyelectrolyte Microcapsules Encoded with Fluorescent Semiconductor Nanoparticles: Design and Characterization of the Fluorescent Properties. Nanoscale Research Letters, 2019, 14, 29.	3.1	20
24	Widespread distribution of HLA-DR-expressing cells in macroscopically undiseased intima of the human aorta: A possible role in surveillance and maintenance of vascular homeostasis. Immunobiology, 2012, 217, 558-568.	0.8	19
25	A novel design of a scanning probe microscope integrated with an ultramicrotome for serial block-face nanotomography. Review of Scientific Instruments, 2017, 88, 023701.	0.6	19
26	Novel 3D-microcarriers from recombinant spidroin for regenerative medicine. Doklady Biochemistry and Biophysics, 2015, 463, 232-235.	0.3	18
27	An instrumental approach to combining confocal microspectroscopy and 3D scanning probe nanotomography. Ultramicroscopy, 2017, 182, 118-123.	0.8	18
28	The role of structural domains in RIP II toxin model membrane binding. FEBS Letters, 1997, 402, 91-93.	1.3	17
29	Carboranyl-Chlorin e6 as a Potent Antimicrobial Photosensitizer. PLoS ONE, 2015, 10, e0141990.	1.1	17
30	Immunotoxin with mistletoe lectin I A-chain and ricin A-chain directed against CD5 antigen of human T-lymphocytes; Comparison of efficiency and specificity. International Journal of Immunopharmacology, 1991, 13, 1037-1041.	1.1	15
31	Study of lamellae of a recombinant spider-web protein by atomic force microscopy. Biophysics (Russian Federation), 2011, 56, 3-7.	0.2	15
32	3D nanostructural analysis of silk fibroin and recombinant spidroin 1 scaffolds by scanning probe nanotomography. RSC Advances, 2014, 4, 60943-60947.	1.7	15
33	Biological Properties of Regenerated Silk Fibroin Films. Sovremennye Tehnologii V Medicine, 2015, 7, 6-13.	0.4	15
34	Biodegradable matrices from regenerated silk of Bombix mori. Doklady Biochemistry and Biophysics, 2010, 433, 201-204.	0.3	12
35	Controlling Charge Transfer from Quantum Dots to Polyelectrolyte Layers Extends Prospective Applications of Magneto-Optical Microcapsules. ACS Applied Materials & Interfaces, 2020, 12, 35882-35894.	4.0	12
36	Dehydration of Model Membranes Induced by Lectins from Ricinuscommunis and Viscumalbum. Biophysical Journal, 1998, 75, 2868-2876.	0.2	11

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37	Ricin, ricin agglutinin, and the ricin binding subunit structural comparison by Raman spectroscopy. Journal of Molecular Structure, 2005, 735-736, 293-298.	1.8	11
38	High resolution 3D microscopy study of cardiomyocytes on polymer scaffold nanofibers reveals formation of unusual sheathed structure. Acta Biomaterialia, 2018, 68, 214-222.	4.1	11
39	Biocompatible materials from regenerated silk for tissue engineering and medicinal therapy. Applied Biochemistry and Microbiology, 2010, 46, 739-744.	0.3	10
40	Boronated derivatives of chlorin e 6 and fluoride-containing porphyrins as penetrating anions: a study using bilayer lipid membranes. Biochemistry (Moscow), 2012, 77, 975-982.	0.7	10
41	Unsaturated lipids protect the integral membrane peptide gramicidin A from singlet oxygen. FEBS Letters, 2014, 588, 1590-1595.	1.3	10
42	Cryo scanning probe nanotomography study of the structure of alginate microcarriers. RSC Advances, 2017, 7, 8808-8815.	1.7	9
43	Comparison of properties of mistletoe lectin I A-chain and ricin B-Chain conjugate with native toxins. FEBS Letters, 1993, 336, 100-102.	1.3	8
44	The interactions of anti-MLI monoclonal antibodies with isoforms of the lectin from Viscum album. Immunology Letters, 1995, 44, 31-34.	1.1	8
45	New Silk Fibroin-Based Bioresorbable Microcarriers. Bulletin of Experimental Biology and Medicine, 2016, 160, 491-494.	0.3	8
46	Cytotoxic effect of ricin A-chain conjugates containing monoclonal antibodies against human erythroid cells. International Journal of Immunopharmacology, 1993, 15, 229-235.	1.1	7
47	X-ray structure ofSalmonella typhimuriumuridine phosphorylase complexed with 5-fluorouracil and molecular modelling of the complex of 5-fluorouracil with uridine phosphorylase fromVibrio cholerae. Acta Crystallographica Section D: Biological Crystallography, 2012, 68, 968-974.	2.5	7
48	Silk Fibroin/Spidroin Electrospun Scaffolds for Full-Thickness Skin Wound Healing in Rats. Pharmaceutics, 2021, 13, 1704.	2.0	7
49	Study of Heterogeneity of Lectins in Mistletoe Preparations by Monoclonal Antibodies to Their A-Subunits. Arzneimittelforschung, 1999, 49, 970-975.	0.5	6
50	Topology of the polypeptide chain in the complex of agglutinin from castor bean seeds with Î²-D-galactose in the crystalline state. Crystallography Reports, 2001, 46, 792-800.	0.1	6
51	Cloning and Expression of Catalytic Subunit of MLIII, the Ribosome-Inactivating Protein from Viscum album. Biochemistry (Moscow), 2004, 69, 642-650.	0.7	6
52	Cloning and expression of mistletoe lectin III B-subunit. Biochemistry (Moscow), 2005, 70, 306-315.	0.7	6
53	FIBROIN SILK BASED FILMS FOR RATâ€™S FULL-THICKNESS SKIN WOUND REGENERATION. Vestnik Transplantologii I Iskusstvennykh Organov, 2016, 18, 74-84.	0.1	6
54	Hybridoma cells producing antibodies against A-chain of mistletoe lectin I are resistant to this toxin. Immunology Letters, 1995, 46, 5-8.	1.1	5

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55	In Vitro Efficacy of Conjugates of Anti-CD45 Monoclonal Antibodies With Plant Toxin A-Chains. Transplantation Proceedings, 1998, 30, 971-973.	0.3	5
56	Comparison between the Mechanisms of Action of Plant Toxins Ricin and Viscumin on the Stage of Intracellular Dissociation. Arzneimittelforschung, 2002, 52, 500-505.	0.5	5
57	Monovalent and Multivalent Binding of Streptavidin to Biotinylated Gramicidin Affects the Kinetic Properties of the Ion Channel. Biochemistry (Moscow), 2004, 69, 220-227.	0.7	5
58	Differences in amino acid sequences of mistletoe lectin I and III B-subunits determining carbohydrate binding specificity. Biochimica Et Biophysica Acta - General Subjects, 2004, 1675, 155-164.	1.1	5
59	Recombinant analogue of spidroin 2 for biomedical materials. Doklady Biochemistry and Biophysics, 2011, 441, 276-279.	0.3	5
60	Recombinant 1F9 spidroin microgels for murine full-thickness wound repairing. Doklady Biochemistry and Biophysics, 2016, 466, 9-12.	0.3	5
61	Liver Tissue Decellularization as a Promising Porous Scaffold Processing Technology for Tissue Engineering and Regenerative Medicine. Sovremennye Tehnologii V Medicine, 2015, 7, 6-13.	0.4	5
62	Biocomposite scaffolds containing regenerated silk fibroin and nanohydroxyapatite for bone tissue regeneration. Doklady Biochemistry and Biophysics, 2011, 440, 228-230.	0.3	4
63	High-resolution 3D structural and optical analyses of hybrid or composite materials by means of scanning probe microscopy combined with the ultramicrotome technique: an example of application to engineering of liquid crystals doped with fluorescent quantum dots. Proceedings of SPIE, 2013, , .	0.8	4
64	Characterization of biodegradable cell micro and macro carriers based on recombinant spidroin. Applied Biochemistry and Microbiology, 2014, 50, 780-788.	0.3	4
65	Application of Peak Intensity Analysis to Measurements of Protein Binding to Lipid Vesicles and Erythrocytes Using Fluorescence Correlation Spectroscopy: Dependence on Particle Size. Journal of Membrane Biology, 2017, 250, 77-87.	1.0	4
66	The Relation of Biological Properties of the Silk Fibroin/Gelatin Scaffolds with the Composition and Fabrication Technology. Sovremennye Tehnologii V Medicine, 2016, 8, 6-15.	0.4	4
67	Detection of Isolated Mistletoe Lectin Chains in Plant Extracts. Arzneimittelforschung, 2002, 52, 67-71.	0.5	3
68	Investigation of micro- and nanostructure of biocompatible scaffolds from regenerated fibroin of Bombix mori by scanning probe nanotomography. Nanotechnologies in Russia, 2014, 9, 688-692.	0.7	3
69	Scanning Probe Nanotomograph: Features of Engineering Solutions for Low-Temperature Analysis of Biomedical Materials. Bio-Medical Engineering, 2015, 49, 132-135.	0.3	3
70	A Comparative Analysis of the Structure and Biological Properties of Films and Microfibrous Scaffolds Based on Silk Fibroin. Pharmaceutics, 2021, 13, 1561.	2.0	3
71	Role of the Interchain Interaction Domain of Chain A in Viscumin Cytotoxicity. Molecular Biology, 2002, 36, 528-533.	0.4	2
72	A new antigenic epitope appears in the catalytic subunit of viscumin during intracellular transport. Biochemistry (Moscow), 2003, 68, 275-285.	0.7	2

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73	A New Gene Encoding the Ribosome-inactivating Protein from Mistletoe Extracts. Arzneimittelforschung, 2004, 54, 242-249.	0.5	2
74	Relation between micro- and nanostructure features and biological properties of the decellularized rat liver. Biomedical Materials (Bristol), 2021, 16, 045035.	1.7	2
75	Humoral immune response to recombinant viral NS3 protein in patients with hepatitis C. Bulletin of Experimental Biology and Medicine, 2005, 139, 77-80.	0.3	1
76	A study of E. coli and T. maritima ribosomes by atomic force microscopy. Biophysics (Russian) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	0.2	1
77	Epitope Specificity of Mouse Immune Response on Short Polypeptides Isolated from Viscum album. Arzneimittelforschung, 2001, 51, 864-869.	0.5	0
78	A new method for quantitative estimation of the virus particles number. Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry, 2009, 3, 304-310.	0.2	0
79	Effect of ricin on photodynamic damage to the plasma membrane. Doklady Biochemistry and Biophysics, 2013, 449, 84-86.	0.3	0
80	Three-dimensional Analysis of Nanomaterials by Scanning Probe Nanotomography. Physics Procedia, 2015, 73, 173-176.	1.2	0
81	Biodegradable porous scaffolds for the bone tissue regeneration. Inorganic Materials: Applied Research, 2016, 7, 219-225.	0.1	0