

Igor I Agapov

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papers

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h-index

27
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84
ext. papers

1,122
ext. citations

3.1
avg, IF

3.44
L-index

#	Paper	IF	Citations
77	Light-triggered liposomal release: membrane permeabilization by photodynamic action. <i>Langmuir</i> , 2010 , 26, 5726-33	4	84
76	Preliminary crystallographic characterization of ricin agglutinin. <i>Proteins: Structure, Function and Bioinformatics</i> , 1997 , 28, 586-9	4.2	65
75	Tissue regeneration in vivo within recombinant spidroin 1 scaffolds. <i>Biomaterials</i> , 2012 , 33, 3887-98	15.6	53
74	Crystal structure at 3 Å of mistletoe lectin I, a dimeric type-II ribosome-inactivating protein, complexed with galactose. <i>FEBS Journal</i> , 2003 , 270, 2739-49		42
73	Three-dimensional scaffold made from recombinant spider Silk protein for tissue engineering. <i>Doklady Biochemistry and Biophysics</i> , 2009 , 426, 127-30	0.8	36
72	In vitro and in vivo biocompatibility studies of a recombinant analogue of spidroin 1 scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 96, 125-31	5.4	35
71	Immunotoxins containing A-chain of mistletoe lectin I are more active than immunotoxins with ricin A-chain. <i>FEBS Letters</i> , 1996 , 392, 166-8	3.8	33
70	Mistletoe lectin I forms a double trefoil structure. <i>FEBS Letters</i> , 1998 , 431, 367-70	3.8	32
69	Endosomal ricin transport: involvement of Rab4- and Rab5-positive compartments. <i>Histochemistry and Cell Biology</i> , 2004 , 121, 429-39	2.4	31
68	Novel photosensitizers trigger rapid death of malignant human cells and rodent tumor transplants via lipid photodamage and membrane permeabilization. <i>PLoS ONE</i> , 2010 , 5, e12717	3.7	28
67	Combined scanning probe nanotomography and optical microspectroscopy: a correlative technique for 3D characterization of nanomaterials. <i>ACS Nano</i> , 2013 , 7, 8953-62	16.7	27
66	Differences in endocytosis and intracellular sorting of ricin and viscumin in 3T3 cells. <i>European Journal of Cell Biology</i> , 2002 , 81, 529-38	6.1	26
65	Membrane fusion mediated by ricin and viscumin. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1998 , 1371, 11-6	3.8	23
64	Mistletoe lectin dissociates into catalytic and binding subunits before translocation across the membrane to the cytoplasm. <i>FEBS Letters</i> , 1999 , 452, 211-4	3.8	21
63	Novel Biodegradable Polymeric Microparticles Facilitate Scarless Wound Healing by Promoting Re-epithelialization and Inhibiting Fibrosis. <i>Frontiers in Immunology</i> , 2018 , 9, 2851	8.4	19
62	Engineering of Optically Encoded Microbeads with FRET-Free Spatially Separated Quantum-Dot Layers for Multiplexed Assays. <i>ChemPhysChem</i> , 2017 , 18, 970-979	3.2	18
61	Photodynamic activity of the boronated chlorin e6 amide in artificial and cellular membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014 , 1838, 793-801	3.8	18

60	Membrane destabilization by ricin. <i>European Biophysics Journal</i> , 2004 , 33, 572-9	1.9	17
59	Mistletoe lectin A-chain unfolds during the intracellular transport. <i>FEBS Letters</i> , 1999 , 464, 63-6	3.8	17
58	Correlation between lipid deposition, immune-inflammatory cell content and MHC class II expression in diffuse intimal thickening of the human aorta. <i>Atherosclerosis</i> , 2011 , 219, 171-83	3.1	16
57	The role of structural domains in RIP II toxin model membrane binding. <i>FEBS Letters</i> , 1997 , 402, 91-3	3.8	16
56	Functional analysis of the engineered cardiac tissue grown on recombinant spidroin fiber meshes. <i>PLoS ONE</i> , 2015 , 10, e0121155	3.7	15
55	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. <i>Immunobiology</i> , 2012 , 217, 558-68	3.4	15
54	Bioimaging Tools Based on Polyelectrolyte Microcapsules Encoded with Fluorescent Semiconductor Nanoparticles: Design and Characterization of the Fluorescent Properties. <i>Nanoscale Research Letters</i> , 2019 , 14, 29	5	14
53	Novel 3D-microcarriers from recombinant spidroin for regenerative medicine. <i>Doklady Biochemistry and Biophysics</i> , 2015 , 463, 232-5	0.8	14
52	Immunotoxin with mistletoe lectin I A-chain and ricin A-chain directed against CD5 antigen of human T-lymphocytes; comparison of efficiency and specificity. <i>International Journal of Immunopharmacology</i> , 1991 , 13, 1037-41		14
51	Effects of Fibroin Microcarriers on Inflammation and Regeneration of Deep Skin Wounds in Mice. <i>Biochemistry (Moscow)</i> , 2016 , 81, 1251-1260	2.9	13
50	Carboranyl-Chlorin e6 as a Potent Antimicrobial Photosensitizer. <i>PLoS ONE</i> , 2015 , 10, e0141990	3.7	13
49	A novel design of a scanning probe microscope integrated with an ultramicrotome for serial block-face nanotomography. <i>Review of Scientific Instruments</i> , 2017 , 88, 023701	1.7	12
48	3D nanostructural analysis of silk fibroin and recombinant spidroin 1 scaffolds by scanning probe nanotomography. <i>RSC Advances</i> , 2014 , 4, 60943-60947	3.7	12
47	Dehydration of model membranes induced by lectins from <i>Ricinus communis</i> and <i>Viscum album</i> . <i>Biophysical Journal</i> , 1998 , 75, 2868-76	2.9	11
46	Boronated derivatives of chlorin e(6) and fluoride-containing porphyrins as penetrating anions: a study using bilayer lipid membranes. <i>Biochemistry (Moscow)</i> , 2012 , 77, 975-82	2.9	10
45	An instrumental approach to combining confocal microspectroscopy and 3D scanning probe nanotomography. <i>Ultramicroscopy</i> , 2017 , 182, 118-123	3.1	9
44	Ricin, ricin agglutinin, and the ricin binding subunit structural comparison by Raman spectroscopy. <i>Journal of Molecular Structure</i> , 2005 , 735-736, 293-298	3.4	9
43	Biological Properties of Regenerated Silk Fibroin Films. <i>Sovremennye Tehnologii V Medicine</i> , 2015 , 7, 6-13	1.2	9

42	Biocompatible materials from regenerated silk for tissue engineering and medicinal therapy. <i>Applied Biochemistry and Microbiology</i> , 2010 , 46, 739-744	1.1	8
41	Biodegradable matrices from regenerated silk of <i>Bombix mori</i> . <i>Doklady Biochemistry and Biophysics</i> , 2010 , 433, 201-4	0.8	8
40	The interactions of anti-MLI monoclonal antibodies with isoforms of the lectin from <i>Viscum album</i> . <i>Immunology Letters</i> , 1995 , 44, 31-4	4.1	8
39	New Silk Fibroin-Based Bioresorbable Microcarriers. <i>Bulletin of Experimental Biology and Medicine</i> , 2016 , 160, 491-4	0.8	7
38	Unsaturated lipids protect the integral membrane peptide gramicidin A from singlet oxygen. <i>FEBS Letters</i> , 2014 , 588, 1590-5	3.8	7
37	Cytotoxic effect of ricin A-chain conjugates containing monoclonal antibodies against human erythroid cells. <i>International Journal of Immunopharmacology</i> , 1993 , 15, 229-35		7
36	Controlling Charge Transfer from Quantum Dots to Polyelectrolyte Layers Extends Prospective Applications of Magneto-Optical Microcapsules. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 35882-35894	9.5	7
35	X-ray structure of <i>Salmonella typhimurium</i> uridine phosphorylase complexed with 5-fluorouracil and molecular modelling of the complex of 5-fluorouracil with uridine phosphorylase from <i>Vibrio cholerae</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2012 , 68, 968-74		6
34	Study of heterogeneity of lectins in mistletoe preparations by monoclonal antibodies to their A-subunits. <i>Arzneimittelforschung</i> , 1999 , 49, 970-5		6
33	Comparison of properties of mistletoe lectin I A-chain and ricin B-chain conjugate with native toxins. <i>FEBS Letters</i> , 1993 , 336, 100-2	3.8	6
32	Cryo scanning probe nanotomography study of the structure of alginate microcarriers. <i>RSC Advances</i> , 2017 , 7, 8808-8815	3.7	5
31	High resolution 3D microscopy study of cardiomyocytes on polymer scaffold nanofibers reveals formation of unusual sheathed structure. <i>Acta Biomaterialia</i> , 2018 , 68, 214-222	10.8	5
30	In vitro efficacy of conjugates of anti-CD45 monoclonal antibodies with plant toxin A-chains. <i>Transplantation Proceedings</i> , 1998 , 30, 971-3	1.1	5
29	Monovalent and multivalent binding of streptavidin to biotinylated gramicidin affects the kinetic properties of the ion channel. <i>Biochemistry (Moscow)</i> , 2004 , 69, 220-7	2.9	5
28	Cloning and expression of catalytic subunit of MLIII, the ribosome-inactivating protein from <i>Viscum album</i> . <i>Biochemistry (Moscow)</i> , 2004 , 69, 642-50	2.9	5
27	Differences in amino acid sequences of mistletoe lectin I and III B-subunits determining carbohydrate binding specificity. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2004 , 1675, 155-64	4	5
26	Topology of the polypeptide chain in the complex of agglutinin from castor bean seeds with ED-galactose in the crystalline state. <i>Crystallography Reports</i> , 2001 , 46, 792-800	0.6	5
25	Recombinant 1F9 spideroin microgels for murine full-thickness wound repairing. <i>Doklady Biochemistry and Biophysics</i> , 2016 , 466, 9-12	0.8	5

24	Recombinant analogue of spidroin 2 for biomedical materials. <i>Doklady Biochemistry and Biophysics</i> , 2011 , 441, 276-9	0.8	4
23	Cloning and expression of mistletoe lectin III B-subunit. <i>Biochemistry (Moscow)</i> , 2005 , 70, 306-15	2.9	4
22	Comparison between the mechanisms of action of plant toxins ricin and viscumin on the stage of intracellular dissociation. <i>Arzneimittelforschung</i> , 2002 , 52, 500-5		4
21	Hybridoma cells producing antibodies against A-chain of mistletoe lectin I are resistant to this toxin. <i>Immunology Letters</i> , 1995 , 46, 5-8	4.1	4
20	Characterization of biodegradable cell micro and macro carriers based on recombinant spidroin. <i>Applied Biochemistry and Microbiology</i> , 2014 , 50, 780-788	1.1	3
19	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 2013 ,		3
18	Study of lamellae of a recombinant spider-web protein by atomic force microscopy. <i>Biophysics (Russian Federation)</i> , 2011 , 56, 3-7	0.7	3
17	Biocomposite scaffolds containing regenerated silk fibroin and nanohydroxyapatite for bone tissue regeneration. <i>Doklady Biochemistry and Biophysics</i> , 2011 , 440, 228-30	0.8	3
16	Scanning Probe Nanotomograph: Features of Engineering Solutions for Low-Temperature Analysis of Biomedical Materials. <i>Bio-Medical Engineering</i> , 2015 , 49, 132-135	0.5	2
15	Application of Peak Intensity Analysis to Measurements of Protein Binding to Lipid Vesicles and Erythrocytes Using Fluorescence Correlation Spectroscopy: Dependence on Particle Size. <i>Journal of Membrane Biology</i> , 2017 , 250, 77-87	2.3	2
14	Investigation of micro- and nanostructure of biocompatible scaffolds from regenerated fibroin of <i>Bombix mori</i> by scanning probe nanotomography. <i>Nanotechnologies in Russia</i> , 2014 , 9, 688-692	0.6	2
13	Role of the Interchain Interaction Domain of Chain A in Viscumin Cytotoxicity. <i>Molecular Biology</i> , 2002 , 36, 528-533	1.2	2
12	A new antigenic epitope appears in the catalytic subunit of viscumin during intracellular transport. <i>Biochemistry (Moscow)</i> , 2003 , 68, 275-85	2.9	2
11	Detection of isolated mistletoe lectin chains in plant extracts. <i>Arzneimittelforschung</i> , 2002 , 52, 67-71		2
10	FIBROIN SILK BASED FILMS FOR RAT'S FULL-THICKNESS SKIN WOUND REGENERATION. <i>Vestnik Transplantologii i Iskusstvennykh Organov</i> , 2016 , 18, 74-84	0.3	2
9	The Relation of Biological Properties of the Silk Fibroin/Gelatin Scaffolds with the Composition and Fabrication Technology. <i>Sovremennye Tehnologii V Medicine</i> , 2016 , 8, 6-15	1.2	2
8	A study of <i>E. coli</i> and <i>T. maritima</i> ribosomes by atomic force microscopy. <i>Biophysics (Russian Federation)</i> , 2006 , 51, 385-390	0.7	1
7	Humoral immune response to recombinant viral NS3 protein in patients with hepatitis C. <i>Bulletin of Experimental Biology and Medicine</i> , 2005 , 139, 77-80	0.8	1

- 6 A new gene encoding the ribosome-inactivating protein from mistletoe extracts. *Arzneimittelforschung*, **2004**, 54, 242-9 0
- 5 Effect of ricin on photodynamic damage to the plasma membrane. *Doklady Biochemistry and Biophysics*, **2013**, 449, 84-6 0.8
- 4 Three-dimensional Analysis of Nanomaterials by Scanning Probe Nanotomography. *Physics Procedia*, **2015**, 73, 173-176
- 3 A new method for quantitative estimation of the virus particles number. *Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry*, **2009**, 3, 304-310 0.4
- 2 Epitope Specificity of Mouse Immune Response on Short Polypeptides Isolated from *Viscum album*. *Arzneimittelforschung*, **2001**, 51, 864-869
- 1 Biodegradable porous scaffolds for the bone tissue regeneration. *Inorganic Materials: Applied Research*, **2016**, 7, 219-225 0.6