Alexander P Savitsky

List of Publications by Year
in descending order

123	3,546	279798 23	138484 58
papers	citations	h-index	g-index

123	123	123	3175
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fluorescent proteins from nonbioluminescent Anthozoa species. Nature Biotechnology, 1999, 17, 969-973.	17.5	1,711
2	Natural Animal Coloration Can Be Determined by a Nonfluorescent Green Fluorescent Protein Homolog. Journal of Biological Chemistry, 2000, 275, 25879-25882.	3.4	300
3	A strategy for the generation of non-aggregating mutants ofAnthozoafluorescent proteins. FEBS Letters, 2002, 511, 11-14.	2.8	148
4	Phosphorescent polymer films for optical oxygen sensors. Biosensors and Bioelectronics, 1992, 7, 199-206.	10.1	97
5	Assessment of Photodynamic Destruction of Escherichia coli O157:H7 and Listeria monocytogenes by Using ATP Bioluminescence. Applied and Environmental Microbiology, 2003, 69, 6393-6398.	3.1	95
6	Green Fluorescent Protein with Anionic Tryptophan-Based Chromophore and Long Fluorescence Lifetime. Biophysical Journal, 2015, 109, 380-389.	0.5	56
7	Fluorescent and phosphorescent study of Langmuir-Blodgett antibody films for application to immunosensors. Biosensors and Bioelectronics, 1993, 8, 377-385.	10.1	48
8	Color transitions in coral's fluorescent proteins by site-directed mutagenesis. BMC Biochemistry, 2001, 2, 6.	4.4	47
9	Alternative Cyclization in GFP-like Proteins Family. Journal of Biological Chemistry, 2001, 276, 21012-21016.	3.4	44
10	A fluorescence quenching study of interpolyelectrolyte reactions. Die Makromolekulare Chemie Rapid Communications, 1984, 5, 709-714.	1.1	42
11	The protoporphyrin-apoperoxidase complex as a horseradish peroxidase analog. Biochimica Et Biophysica Acta - Biomembranes, 1981, 662, 210-219.	2.6	39
12	Biodistribution and stability of CdSe core quantum dots in mouse digestive tract following per os administration: Advantages of double polymer/silica coated nanocrystals. Biochemical and Biophysical Research Communications, 2012, 419, 54-59.	2.1	39
13	Femtosecond study of light-induced fluorescence increase of the dark chromoprotein asFP595. Chemical Physics, 2006, 323, 149-160.	1.9	36
14	FLIM-FRET Imaging of Caspase-3 Activity in Live Cells Using Pair of Red Fluorescent Proteins. Theranostics, 2012, 2, 215-226.	10.0	35
15	Ground-State Structures and Vertical Excitations for the Kindling Fluorescent Protein asFP595. Journal of Physical Chemistry B, 2006, 110, 18635-18640.	2.6	33
16	Modeling Photoabsorption of the asFP595 Chromophore. Journal of Physical Chemistry A, 2008, 112, 8804-8810.	2.5	32
17	Modification of monoclonal and polyclonal IgG with palladium (II) coproporphyrin I: stimulatory and inhibitory functional effects induced by two different methods. Journal of Immunological Methods, 1995, 186, 293-304.	1.4	31
18	Bright GFP with subnanosecond fluorescence lifetime. Scientific Reports, 2018, 8, 13224.	3.3	31

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19	Acidâ€"base properties of protoporphyrin IX; its dimethyl ester and heme solubilized on surfactant micelles: spectrophotometric and fluorometric titration. Journal of Colloid and Interface Science, 1981, 84, 175-181.	9.4	30
20	Palladium(II)-coproporphyrin I as a photoactivable group in sequence-specific modification of nucleic acids by oligonucleotide derivatives. FEBS Letters, 1990, 259, 335-337.	2.8	28
21	Universal Phosphorescence Immunoassay. Analytical Biochemistry, 1994, 219, 109-114.	2.4	26
22	Lifetime imaging of FRET between red fluorescent proteins. Journal of Biophotonics, 2010, 3, 774-783.	2.3	25
23	Fluorescence diffuse tomography for detection of red fluorescent protein expressed tumors in small animals. Journal of Biomedical Optics, 2008, 13, 041310.	2.6	23
24	Kinetics of oxidation of o-dianisidine by hydrogen peroxide in the presence of antibody complexes of iron(III) coproporphyrin. Applied Biochemistry and Biotechnology, 1994, 47, 317-327.	2.9	22
25	trans and cis Chromophore structures in the kindling fluorescent protein asFP595. Chemical Physics Letters, 2006, 424, 184-188.	2.6	22
26	Magnetic resonance contrast agents in optical clearing: Prospects for multimodal tissue imaging. Journal of Biophotonics, 2020, 13, e201960249.	2.3	21
27	Computational strategy for tuning spectral properties of red fluorescent proteins. Biophysical Chemistry, 2011, 158, 91-95.	2.8	19
28	Photoinactivation of mycobacteria to combat infection diseases: current state and perspectives. Applied Microbiology and Biotechnology, 2021, 105, 4099-4109.	3.6	19
29	Detection of protease activity by fluorescent protein FRET sensors: from computer simulation to live cells. Methods and Applications in Fluorescence, 2018, 6, 022001.	2.3	18
30	pH Dependence of fluorescence and absorbance spectra of free sulphonated aluminium phthalocyanine and its conjugate with monoclonal antibodies. Journal of Photochemistry and Photobiology B: Biology, 1992, 13, 327-333.	3.8	17
31	Fluorescence color diversity of great barrier reef corals. Journal of Innovative Optical Health Sciences, 2015, 08, 1550028.	1.0	17
32	Monoclonal antibodies against metalloporphyrins. Specificity of interaction with structurally different metalloporphyrins. FEBS Letters, 1994, 355, 314-316.	2.8	16
33	Photodynamic activity of dibiotinylated aluminum sulfophthalocyanine in vitro and in vivo. Journal of Photochemistry and Photobiology B: Biology, 2005, 80, 57-64.	3.8	15
34	Exploration of the Zinc Finger Motif in Controlling Activity of Matrix Metalloproteinases. Journal of Physical Chemistry B, 2014, 118, 13505-13512.	2.6	15
35	Photoinactivation of dormant Mycobacterium smegmatis due to its endogenous porphyrins. Applied Microbiology and Biotechnology, 2019, 103, 9687-9695.	3.6	15
36	Effect of concentrations of salts on the formation of protein monolayers. Russian Chemical Bulletin, 1995, 44, 1958-1962.	1.5	14

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37	Unusual Emitting States of the Kindling Fluorescent Protein: Appearance of the Cationic Chromophore in the GFP Family. Journal of Physical Chemistry B, 2013, 117, 7228-7234.	2.6	14
38	Biodistribution of intact fluorescent CdSe/CdS/ZnS quantum dots coated by mercaptopropionic acid after intravenous injection into mice. Journal of Biophotonics, 2012, 5, 848-859.	2.3	13
39	Computer Modeling of the Structure and Spectra of Fluorescent Proteins. Acta Naturae, 2009, 1, 33-43.	1.7	13
40	Determination of corproporphyrin in urine by using stopped-flow fluoroimmunoassay. Analytica Chimica Acta, 1998, 361, 27-32.	5.4	12
41	Conformation dependence of pKaâ€™s of the chromophores from the purple asFP595 and yellow zFP538 fluorescent proteins. Computational and Theoretical Chemistry, 2008, 863, 39-43.	1.5	12
42	Conformational Partitioning in pH-Induced Fluorescence of the Kindling Fluorescent Protein (KFP). Journal of Physical Chemistry B, 2011, 115, 9195-9201.	2.6	12
43	Fluorescence diffuse tomography of small animals with DsRed2 fluorescent protein. Laser Physics, 2006, 16, 741-746.	1.2	11
44	Effect of Photodynamic Inactivation against Dormant Forms and Active Growing Cells of Mycobacterium smegmatis. Applied Biochemistry and Microbiology, 2020, 56, 285-291.	0.9	11
45	Long-term fluorescence lifetime imaging of a genetically encoded sensor for caspase-3 activity in mouse tumor xenografts. Journal of Biomedical Optics, 2018, 23, 1.	2.6	11
46	Micelle Stabilized Phosphorescent Immunoassay Based on Bispecific Antibodies Against Label and Antigen. Analytical Letters, 1995, 28, 249-258.	1.8	10
47	Thermal Isomerization of the Chromoprotein asFP595 and Its Kindling Mutant A143G: QM/MM Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2013, 117, 13507-13514.	2.6	10
48	Kinetic fluorimetric determination of Cu(II) and Zn(II) by their incorporation reactions into a water-soluble porphyrin. Talanta, 1994, 41, 1699-1706.	5.5	9
49	Fluorescent Properties of Firefly Luciferases and Their Complexes with Luciferin. Bioscience Reports, 2000, 20, 21-30.	2.4	9
50	Fluorescence resonance energy transfer between fluorescent proteins as powerful toolkits for in vivo studies. Laser Physics Letters, 2011, 8, 91-102.	1.4	9
51	Using lanthanide-based resonance energy transfer for in vitro and in vivo studies of biological processes. Biochemistry (Moscow), 2012, 77, 1553-1574.	1.5	9
52	Reversible photobleaching of photoconvertible SAASoti-FP. Journal of Biomedical Photonics and Engineering, 2017, 3, 040303.	0.7	9
53	Biodistribution and clearance of quantum dots in small animals. Proceedings of SPIE, 2010, , .	0.8	8
54	Genetically encoded FRET-pair on the basis of terbium-binding peptide and red fluorescent protein. Applied Biochemistry and Microbiology, 2010, 46, 154-158.	0.9	8

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55	The origin of radiationless conversion of the excited state in the kindling fluorescent protein (KFP): femtosecond studies and quantum modeling. Laser Physics Letters, 2011, 8, 469-474.	1.4	8
56	Modeling absorption of the kindling fluorescent protein with the neutral form of the chromophore. International Journal of Quantum Chemistry, 2012, 112, 2947-2951.	2.0	8
57	Monomerization of the photoconvertible fluorescent protein SAASoti by rational mutagenesis of single amino acids. Scientific Reports, 2018, 8, 15542.	3.3	8
58	FRET-sensor for imaging with lifetime resolution. Proceedings of SPIE, 2010, , .	0.8	7
59	Novel Phototransformable Fluorescent Protein SAASoti with Unique Photochemical Properties. International Journal of Molecular Sciences, 2019, 20, 3399.	4.1	7
60	DEVELOPMENT OF A HOMOGENEOUS PHOSPHORESCENT IMMUNOASSAY FOR THE DETECTION OF POLYCHLORINATED DIBENZO-p-DIOXINS. Analytical Letters, 2001, 34, 2311-2320.	1.8	6
61	Brightness of Yellow Fluorescent Protein from Coral (zFP538) Depends on Aggregationâ€. Biochemistry, 2005, 44, 3982-3993.	2.5	6
62	Computer modeling of the structure and spectra of fluorescent proteins. Acta Naturae, 2009, 1, 33-43.	1.7	6
63	<title>Novel fluorescent chelate for Eu</title>. , 1995, , .		5
64	Computational Characterization of Ketoneâ€“Ketal Transformations at the Active Site of Matrix Metalloproteinases. Journal of Physical Chemistry B, 2014, 118, 4345-4350.	2.6	5
65	MR and fluorescence imaging of gadobutrolâ€induced optical clearing of red fluorescent protein signal in an in vivo cancer model. NMR in Biomedicine, 2022, 35, e4708.	2.8	5
66	The role of cysteine residues in the allosteric modulation of the chromophore phototransformations of biphotochromic fluorescent protein SAASoti. Scientific Reports, 2021, 11, 24314.	3.3	5
67	Photoinduced singlet oxygen formation in aqueous solutions of covalent porphyrin-antibody conjugates. Bulletin of Experimental Biology and Medicine, 1990, 109, 454-456.	0.8	4
68	Optical methods of investigation of the protein Langmuirâ€”Blodgett films. Thin Solid Films, 1995, 259, 85-90.	1.8	4
69	<title>Near-infrared phosphorescent metalloporphyrins</title>. , 1997, 2980, 352.		4
70	A pilot study of the dynamics of tissue oxygenation in vivo using time-resolved phosphorescence imaging. Journal of Innovative Optical Health Sciences, 2021, 14, .	1.0	4
71	Genetically Encoded FRET-Sensor Based on Terbium Chelate and Red Fluorescent Protein for Detection of Caspase-3 Activity. International Journal of Molecular Sciences, 2015, 16, 16642-16654.	4.1	3
72	Corynebacterium jeikeium Dormant Cell Formation and Photodynamic Inactivation. Frontiers in Microbiology, 2020, 11, 605899.	3.5	3

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73	<title>Fluorescent and phosphorescent study of Langmuir-Blodgett antibody films for application to optical immunosensors</title>. , 1993, , .		2
74	<title>Room-temperature phosphorescence of metalloporphyrins and its application to immunoassay</title>. , 1994, , .		2
75	Solid surface measurement of room temperature phosphorescence of Pd-coproporphyrin and its application for time-resolved microscopy. , 1994, 2083, 49.		2
76	Study of action of cyclophosphamide and extract of mycelium of Pleurotus ostreatus in vivo on mice, bearing melanoma B16-F0-GFP. , 2005, 5704, 214.		2
77	Three-Dimensional In Vivo Imaging of Tumors Expressing Red Fluorescent Proteins. Methods in Molecular Biology, 2012, 872, 97-114.	0.9	2
78	Molecular mechanism of interactions between MMP-2 and its oligopeptide-based inhibitors. Mendeleev Communications, 2017, 27, 157-159.	1.6	2
79	Sensors for Proteolytic Activity Visualization and Their Application in Animal Models of Human Diseases. Biochemistry (Moscow), 2019, 84, 1-18.	1.5	2
80	Langmuirâ€"Blodgett monolayers as a basis for advanced optical biosensors. Advances in Biosensors, 1995, , 165-190.	0.2	2
81	Application of Genetically Encoded Photoconvertible Protein SAASoti for the Study of Enzyme Activity in a Single Live Cell by Fluorescence Correlation Microscopy. Materials, 2022, 15, 4962.	2.9	2
82	Molecular mechanical calculations of the molecular structure of eight-coordinate europium complexes. Russian Chemical Bulletin, 1993, 42, 1488-1492.	1.5	1
83	<title>Biomedical application of metalloporphyrins room-temperature phosphorescence</title>. , 1993, , .		1
84	<title>Avidin-biotin system for targeting delivery of photosensitizers and other cytotoxic agents into malignant tissues</title>. , 1997, , .		1
85	Title is missing!. Journal of Fluorescence, 2003, 13, 79-88.	2.5	1
86	High-throughput screening system for the study of phototoxicity of photosensitizers in vitro. , 2003, 4952, 203.		1
87	Bioluminescence lights the way to food safety. , 2003, , .		1
88	Frequency-domain optical diffusion tomography of fluorescent proteins. , 2005, , .		1
89	Chemical and Genetic Sensors in Biomedical Research. Journal of Biomedical Optics, 2005, 10, 041201.	2.6	1
90	Fluorescence diffuse tomography for detection of RFP-expressed tumors in small animals. , 2007, , .		1

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91	Structural forms of green fluorescent protein by quantum mechanics/molecular mechanics calculations. Russian Chemical Bulletin, 2010, 59, 61-65.	1.5	1
92	Molecular modeling of the FÃ¶rster resonance energy transfer between FusionRed and Dedushka(eqFP670) fluorescent proteins. , 2013, , .		1
93	Oxoethylene derivative of the natural substrate as an inhibitor of matrix metalloproteinase MMP-2. Mendeleev Communications, 2016, 26, 207-208.	1.6	1
94	BIOLUMINESCENT ASSAY OF ATP LEAKAGE FROM YEAST CELLS AFTER PHOTODYNAMIC DAMAGE. , 2001, , .		1
95	First biphotochromic fluorescent protein moxSAASoti stabilized for oxidizing environment. Scientific Reports, 2022, 12, 7862.	3.3	1
96	Mapping of the immunodominant regions of the NAD-dependent formate dehydrogenase. FEBS Letters, 1990, 260, 297-300.	2.8	0
97	<title>Universal phosphorescence immunoassay</title>. , 1993, , .		0
98	Photophysical properties of protein conjugates with PDT photosensitizers. , 1993, , .		0
99	<title>Molecular mechanics calculations of 8-coordinate europium complexes</title>. , 1993, , .		0
100	<title>Optical methods of investigation of the protein Langmuir: Blodgett films</title>. , 1994, 2082, 248.		0
101	<title>Photochemical inactivation of viruses by antibody conjugates of compounds generating singlet oxygen</title>. , 1994, 2078, 324.		0
102	Title is missing!. Russian Journal of Bioorganic Chemistry, 2002, 28, 274-277.	1.0	0
103	Detection of protein-protein interactions using Aequorea victoria bioluminescence resonance energy transfer. , 2003, , .		0
104	Improvement of photodynamic activity of aluminium sulphophthalocyanine due to biotinylation. , 2003, , .		0
105	Oligomerizations strongly influences the brightness of DsRed fluorescence. , 2003, , .		0
106	Aggregation strongly influence the pH-profile of the yellow fluorescent protein zFP538. , 2003, 4967, 88.		0
107	Fluorescent proteins require reactive oxygen species to develop fluorescence. , 2003, 4967, 75.		0
108	Fluorescence enhancement of asCP595 is due to consecutive absorbance of two photons. , 2004, 5329, 73.		0

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109	Aggregation of the yellow fluorescent protein zFP538 is pH-dependent. , 2004, , .		0
110	Atomic force and near-field scanning microscopy of solid zFP538 films. , 2005, 5704, 200.		0
111	Kinetics of denaturation of the yellow fluorescent protein from coral zFP538. , 2005, , .		0
112	Frequency domain fluorescent diffuse tomography of small animals with DsRed2-expressed tumors. , 2006, 6098, 76.		0
113	Multipopulation desaggregation behavior of zFP538 upon dilution. , 2006, , .		0
114	Role of pH in the appearance of the fluorescent state of chromo protein asCP595 and its mutant KFP. , 2007, , .		0
115	Modeling trans-cis chromophore isomerization for the asFP595 kindling protein. , 2007, , .		0
116	Fluorescence diffuse tomography for detection of RFP-expressed tumors in small animals. , 2007, , .		0
117	Simulations on the kindling mechanism of the asFP595 fluorescent protein. , 2008, , .		0
118	Computational approaches in modeling spectra of biological chromophores. Proceedings of SPIE, 2008, , .	0.8	0
119	Computational modeling structure and spectra of biological chromophores. , 2009, , .		0
120	Modeling structure and spectra of red fluorescent proteins. Proceedings of SPIE, 2010, , .	0.8	0
121	Modeling structure and spectra of the kindling fluorescent protein asFP595. , 2011, , .		0
122	Investigation of the effect of photosensitizer Tiosense on the tumor model mel Kor-TurboRFP expressed red fluorescent protein. Russian Journal of General Chemistry, 2015, 85, 274-279.	0.8	0
123	Near-infrared oligonucleotide duplex sensors for imaging rapidly activated transcription factors in vitro and in situ. , 2019, , .		0