

Alexander P Savitsky

List of Publications by Year in descending order

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123
papers

3,546
citations

279701

23
h-index

138417

58
g-index

123
all docs

123
docs citations

123
times ranked

3175
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluorescent proteins from nonbioluminescent Anthozoa species. <i>Nature Biotechnology</i> , 1999, 17, 969-973.	9.4	1,711
2	Natural Animal Coloration Can Be Determined by a Nonfluorescent Green Fluorescent Protein Homolog. <i>Journal of Biological Chemistry</i> , 2000, 275, 25879-25882.	1.6	300
3	A strategy for the generation of non-aggregating mutants of Anthozoa fluorescent proteins. <i>FEBS Letters</i> , 2002, 511, 11-14.	1.3	148
4	Phosphorescent polymer films for optical oxygen sensors. <i>Biosensors and Bioelectronics</i> , 1992, 7, 199-206.	5.3	97
5	Assessment of Photodynamic Destruction of <i>Escherichia coli</i> O157:H7 and <i>Listeria monocytogenes</i> by Using ATP Bioluminescence. <i>Applied and Environmental Microbiology</i> , 2003, 69, 6393-6398.	1.4	95
6	Green Fluorescent Protein with Anionic Tryptophan-Based Chromophore and Long Fluorescence Lifetime. <i>Biophysical Journal</i> , 2015, 109, 380-389.	0.2	56
7	Fluorescent and phosphorescent study of Langmuir-Blodgett antibody films for application to immunosensors. <i>Biosensors and Bioelectronics</i> , 1993, 8, 377-385.	5.3	48
8	Color transitions in coral's fluorescent proteins by site-directed mutagenesis. <i>BMC Biochemistry</i> , 2001, 2, 6.	4.4	47
9	Alternative Cyclization in GFP-like Proteins Family. <i>Journal of Biological Chemistry</i> , 2001, 276, 21012-21016.	1.6	44
10	A fluorescence quenching study of interpolyelectrolyte reactions. <i>Die Makromolekulare Chemie Rapid Communications</i> , 1984, 5, 709-714.	1.1	42
11	The protoporphyrin-apoperoxidase complex as a horseradish peroxidase analog. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1981, 662, 210-219.	1.4	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. <i>Biochemical and Biophysical Research Communications</i> , 2012, 419, 54-59.	1.0	39
13	Femtosecond study of light-induced fluorescence increase of the dark chromoprotein asFP595. <i>Chemical Physics</i> , 2006, 323, 149-160.	0.9	36
14	FLIM-FRET Imaging of Caspase-3 Activity in Live Cells Using Pair of Red Fluorescent Proteins. <i>Theranostics</i> , 2012, 2, 215-226.	4.6	35
15	Ground-State Structures and Vertical Excitations for the Kindling Fluorescent Protein asFP595. <i>Journal of Physical Chemistry B</i> , 2006, 110, 18635-18640.	1.2	33
16	Modeling Photoabsorption of the asFP595 Chromophore. <i>Journal of Physical Chemistry A</i> , 2008, 112, 8804-8810.	1.1	32
17	Modification of monoclonal and polyclonal IgG with palladium (II) coproporphyrin I: stimulatory and inhibitory functional effects induced by two different methods. <i>Journal of Immunological Methods</i> , 1995, 186, 293-304.	0.6	31
18	Bright GFP with subnanosecond fluorescence lifetime. <i>Scientific Reports</i> , 2018, 8, 13224.	1.6	31

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19	Acid-base properties of protoporphyrin IX; its dimethyl ester and heme solubilized on surfactant micelles: spectrophotometric and fluorometric titration. <i>Journal of Colloid and Interface Science</i> , 1981, 84, 175-181.	5.0	30
20	Palladium(II)-coproporphyrin I as a photoactivable group in sequence-specific modification of nucleic acids by oligonucleotide derivatives. <i>FEBS Letters</i> , 1990, 259, 335-337.	1.3	28
21	Universal Phosphorescence Immunoassay. <i>Analytical Biochemistry</i> , 1994, 219, 109-114.	1.1	26
22	Lifetime imaging of FRET between red fluorescent proteins. <i>Journal of Biophotonics</i> , 2010, 3, 774-783.	1.1	25
23	Fluorescence diffuse tomography for detection of red fluorescent protein expressed tumors in small animals. <i>Journal of Biomedical Optics</i> , 2008, 13, 041310.	1.4	23
24	Kinetics of oxidation of o-dianisidine by hydrogen peroxide in the presence of antibody complexes of iron(III) coproporphyrin. <i>Applied Biochemistry and Biotechnology</i> , 1994, 47, 317-327.	1.4	22
25	trans and cis Chromophore structures in the kindling fluorescent protein asFP595. <i>Chemical Physics Letters</i> , 2006, 424, 184-188.	1.2	22
26	Magnetic resonance contrast agents in optical clearing: Prospects for multimodal tissue imaging. <i>Journal of Biophotonics</i> , 2020, 13, e201960249.	1.1	21
27	Computational strategy for tuning spectral properties of red fluorescent proteins. <i>Biophysical Chemistry</i> , 2011, 158, 91-95.	1.5	19
28	Photoinactivation of mycobacteria to combat infection diseases: current state and perspectives. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 4099-4109.	1.7	19
29	Detection of protease activity by fluorescent protein FRET sensors: from computer simulation to live cells. <i>Methods and Applications in Fluorescence</i> , 2018, 6, 022001.	1.1	18
30	pH Dependence of fluorescence and absorbance spectra of free sulphonated aluminium phthalocyanine and its conjugate with monoclonal antibodies. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1992, 13, 327-333.	1.7	17
31	Fluorescence color diversity of great barrier reef corals. <i>Journal of Innovative Optical Health Sciences</i> , 2015, 08, 1550028.	0.5	17
32	Monoclonal antibodies against metalloporphyrins. Specificity of interaction with structurally different metalloporphyrins. <i>FEBS Letters</i> , 1994, 355, 314-316.	1.3	16
33	Photodynamic activity of dibiotinylated aluminum sulfophthalocyanine in vitro and in vivo. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2005, 80, 57-64.	1.7	15
34	Exploration of the Zinc Finger Motif in Controlling Activity of Matrix Metalloproteinases. <i>Journal of Physical Chemistry B</i> , 2014, 118, 13505-13512.	1.2	15
35	Photoinactivation of dormant <i>Mycobacterium smegmatis</i> due to its endogenous porphyrins. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 9687-9695.	1.7	15
36	Effect of concentrations of salts on the formation of protein monolayers. <i>Russian Chemical Bulletin</i> , 1995, 44, 1958-1962.	0.4	14

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37	Unusual Emitting States of the Kindling Fluorescent Protein: Appearance of the Cationic Chromophore in the GFP Family. <i>Journal of Physical Chemistry B</i> , 2013, 117, 7228-7234.	1.2	14
38	Biodistribution of intact fluorescent CdSe/CdS/ZnS quantum dots coated by mercaptopropionic acid after intravenous injection into mice. <i>Journal of Biophotonics</i> , 2012, 5, 848-859.	1.1	13
39	Computer Modeling of the Structure and Spectra of Fluorescent Proteins. <i>Acta Naturae</i> , 2009, 1, 33-43.	1.7	13
40	Determination of corroporphyrin in urine by using stopped-flow fluoroimmunoassay. <i>Analytica Chimica Acta</i> , 1998, 361, 27-32.	2.6	12
41	Conformation dependence of pKa TM s of the chromophores from the purple asFP595 and yellow zFP538 fluorescent proteins. <i>Computational and Theoretical Chemistry</i> , 2008, 863, 39-43.	1.5	12
42	Conformational Partitioning in pH-Induced Fluorescence of the Kindling Fluorescent Protein (KFP). <i>Journal of Physical Chemistry B</i> , 2011, 115, 9195-9201.	1.2	12
43	Fluorescence diffuse tomography of small animals with DsRed2 fluorescent protein. <i>Laser Physics</i> , 2006, 16, 741-746.	0.6	11
44	Effect of Photodynamic Inactivation against Dormant Forms and Active Growing Cells of <i>Mycobacterium smegmatis</i> . <i>Applied Biochemistry and Microbiology</i> , 2020, 56, 285-291.	0.3	11
45	Long-term fluorescence lifetime imaging of a genetically encoded sensor for caspase-3 activity in mouse tumor xenografts. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	1.4	11
46	Micelle Stabilized Phosphorescent Immunoassay Based on Bispecific Antibodies Against Label and Antigen. <i>Analytical Letters</i> , 1995, 28, 249-258.	1.0	10
47	Thermal Isomerization of the Chromoprotein asFP595 and Its Kindling Mutant A143G: QM/MM Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2013, 117, 13507-13514.	1.2	10
48	Kinetic fluorimetric determination of Cu(II) and Zn(II) by their incorporation reactions into a water-soluble porphyrin. <i>Talanta</i> , 1994, 41, 1699-1706.	2.9	9
49	Fluorescent Properties of Firefly Luciferases and Their Complexes with Luciferin. <i>Bioscience Reports</i> , 2000, 20, 21-30.	1.1	9
50	Fluorescence resonance energy transfer between fluorescent proteins as powerful toolkits for in vivo studies. <i>Laser Physics Letters</i> , 2011, 8, 91-102.	0.6	9
51	Using lanthanide-based resonance energy transfer for in vitro and in vivo studies of biological processes. <i>Biochemistry (Moscow)</i> , 2012, 77, 1553-1574.	0.7	9
52	Reversible photobleaching of photoconvertible SAASoti-FP. <i>Journal of Biomedical Photonics and Engineering</i> , 2017, 3, 040303.	0.4	9
53	Biodistribution and clearance of quantum dots in small animals. <i>Proceedings of SPIE</i> , 2010, , .	0.8	8
54	Genetically encoded FRET-pair on the basis of terbium-binding peptide and red fluorescent protein. <i>Applied Biochemistry and Microbiology</i> , 2010, 46, 154-158.	0.3	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. <i>Laser Physics Letters</i> , 2011, 8, 469-474.	0.6	8
56	Modeling absorption of the kindling fluorescent protein with the neutral form of the chromophore. <i>International Journal of Quantum Chemistry</i> , 2012, 112, 2947-2951.	1.0	8
57	Monomerization of the photoconvertible fluorescent protein SAASoti by rational mutagenesis of single amino acids. <i>Scientific Reports</i> , 2018, 8, 15542.	1.6	8
58	FRET-sensor for imaging with lifetime resolution. <i>Proceedings of SPIE</i> , 2010, , .	0.8	7
59	Novel Phototransformable Fluorescent Protein SAASoti with Unique Photochemical Properties. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3399.	1.8	7
60	DEVELOPMENT OF A HOMOGENEOUS PHOSPHORESCENT IMMUNOASSAY FOR THE DETECTION OF POLYCHLORINATED DIBENZO-p-DIOXINS. <i>Analytical Letters</i> , 2001, 34, 2311-2320.	1.0	6
61	Brightness of Yellow Fluorescent Protein from Coral (zFP538) Depends on Aggregation. <i>Biochemistry</i> , 2005, 44, 3982-3993.	1.2	6
62	Computer modeling of the structure and spectra of fluorescent proteins. <i>Acta Naturae</i> , 2009, 1, 33-43.	1.7	6
63	<title>Novel fluorescent chelate for Eu</title>. , 1995, , .		5
64	Computational Characterization of Ketone. Ketal Transformations at the Active Site of Matrix Metalloproteinases. <i>Journal of Physical Chemistry B</i> , 2014, 118, 4345-4350.	1.2	5
65	MR and fluorescence imaging of gadobutrol-induced optical clearing of red fluorescent protein signal in an in vivo cancer model. <i>NMR in Biomedicine</i> , 2022, 35, e4708.	1.6	5
66	The role of cysteine residues in the allosteric modulation of the chromophore phototransformations of biphotochromic fluorescent protein SAASoti. <i>Scientific Reports</i> , 2021, 11, 24314.	1.6	5
67	Photoinduced singlet oxygen formation in aqueous solutions of covalent porphyrin-antibody conjugates. <i>Bulletin of Experimental Biology and Medicine</i> , 1990, 109, 454-456.	0.3	4
68	Optical methods of investigation of the protein Langmuir-Blodgett films. <i>Thin Solid Films</i> , 1995, 259, 85-90.	0.8	4
69	<title>Near-infrared phosphorescent metalloporphyrins</title>. , 1997, 2980, 352.		4
70	A pilot study of the dynamics of tissue oxygenation <i>in vivo</i> using time-resolved phosphorescence imaging. <i>Journal of Innovative Optical Health Sciences</i> , 2021, 14, .	0.5	4
71	Genetically Encoded FRET-Sensor Based on Terbium Chelate and Red Fluorescent Protein for Detection of Caspase-3 Activity. <i>International Journal of Molecular Sciences</i> , 2015, 16, 16642-16654.	1.8	3
72	<i>Corynebacterium jeikeium</i> Dormant Cell Formation and Photodynamic Inactivation. <i>Frontiers in Microbiology</i> , 2020, 11, 605899.	1.5	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.	0.4	2
78	Molecular mechanism of interactions between MMP-2 and its oligopeptide-based inhibitors. Mendeleev Communications, 2017, 27, 157-159.	0.6	2
79	Sensors for Proteolytic Activity Visualization and Their Application in Animal Models of Human Diseases. Biochemistry (Moscow), 2019, 84, 1-18.	0.7	2
80	Langmuir-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.	1.3	2
82	Molecular mechanical calculations of the molecular structure of eight-coordinate europium complexes. Russian Chemical Bulletin, 1993, 42, 1488-1492.	0.4	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.	1.3	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.	1.4	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.	0.4	1
92	Molecular modeling of the Förster 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.	0.6	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.	1.6	1
96	Mapping of the immunodominant regions of the NAD-dependent formate dehydrogenase. FEBS Letters, 1990, 260, 297-300.	1.3	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.	0.3	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.	0.3	0
123	Near-infrared oligonucleotide duplex sensors for imaging rapidly activated transcription factors in vitro and in situ. , 2019, , .		0